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Task Analysis and Workload Prediction Model of the MH-60K Mission and a Comparison with UH-60A Workload Predictions

Volume II: Appendixes A through G

Carl R. Bierbaum and David B. Hamilton

Anacapa Sciences, Inc.

Aviation R&D Activity at Fort Rucker, Alabama Charles A. Gainer, Chief

> Systems Research Laboratory Robin L. Keesee, Director

> > October 1990





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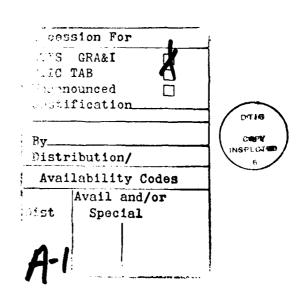
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Technical review by

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ments, 71 functions, and 230 tasks for t	he miss	ion. Also,	the crewmemb	er perform	ing each	
task was identified, and estimates of th				, cognitiv	e, and	
<pre>psychomotor workload associated with the The mission/task/workload analysis</pre>	tasks v data we	were derived re used to d	· evelop a com	nuter mode	1 of work-	
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from tasks and mission segments from fun	ctions.	Decision r	ules were wr	itten to s	pecify the	
procedure for combining tasks into funct	ions and	d functions	into segment	s. The mo	del per-	
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19. ABSTRACT (Continued)		
workload for the pilot and MH-60K.	lower predicted workload	for the copilot in the
MH-6UK.		

TASK ANALYSIS AND WORKLOAD PREDICTION MODEL OF THE MH-60K MISSION AND A COMPARISON WITH UH-60A WORKLOAD PREDICTIONS; VOLUME II: APPENDIXES A THROUGH G

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TASK ANALYSIS AND WORKLOAD PREDICTION MODEL OF THE MH-60K MISSION AND A COMPARISON WITH UH-60A WORKLOAD PREDICTIONS VOLUME II: APPENDIXES A THROUGH G

INTRODUCTION

This three-volume report describes the methodology used to conduct a comprehensive task analysis of the MH-60K mission and the results of the analysis. Information provided by the MH-60K mission/task/workload analysis was used to establish a data base and to develop a computer model that predicts workload for the MH-60K pilot and copilot. Assessments of workload produced by the model are compared with the UH-60A baseline model to assess the impact on workload of the high technology modifications made in the MH-60K aircraft. The complete explanation of the Task Analysis/Workload (TAWL) methodology for performing the mission/task/workload analysis is contained in Volume I of this report.

The appendixes in Volume II present the results of exercising the UH-60A workload prediction model and the task analysis of the MH-60K mission scenario. The task/workl ad analysis and model construction phases of the UH-60A are described in a report by Bierbaum, Szabo, and Aldrich (1989). The graphs in Appendixes A and B present the workload predictions for the pilot and copilot for each of the 34 UH-60A mission segments. The graphs present the total workload for each of the six components for all tasks the crewmember is performing during each half-second of the mission segment. The diamond symbol at the end of each graph indicates the average workload of the component for the segment.

Appendixes C through G present the results of the task analysis of the MH-60K mission scenario:

- Appendix C summarizes the segments within each MH-60K mission phase,
- Appendix D presents an alphabetical list of the unique MH-60K mission functions,
- Appendix E summarizes the MH-60K functions within each mission segment,
- Appendix F presents an alphabetical list of the unique MH-60K tasks, and
- Appendix G presents the MH-60K Function Analysis Worksheets that summarize the workload data derived for each unique function.

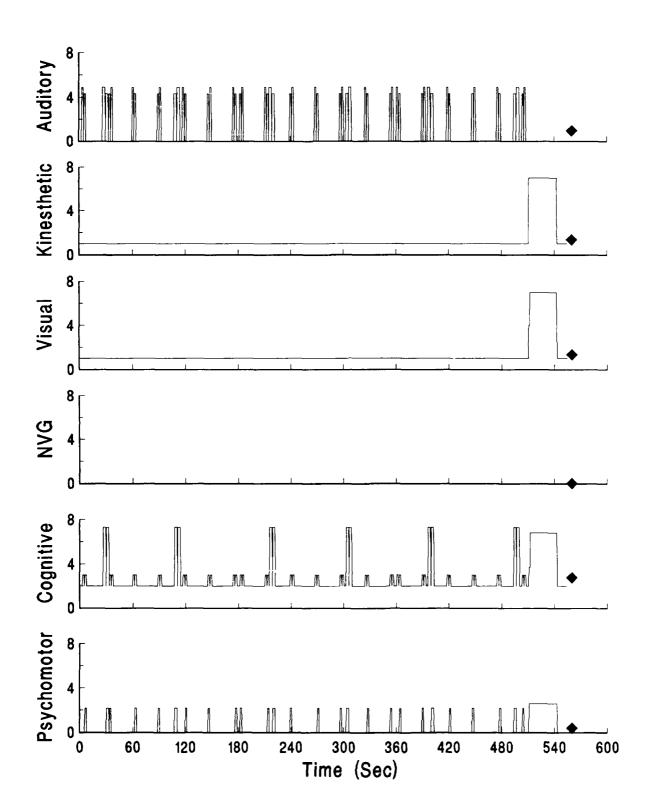
The task analysis results were used in the construction of the MH-60K workload prediction model. The results of the model execution are presented in Volume III of this report.

APPENDIX A

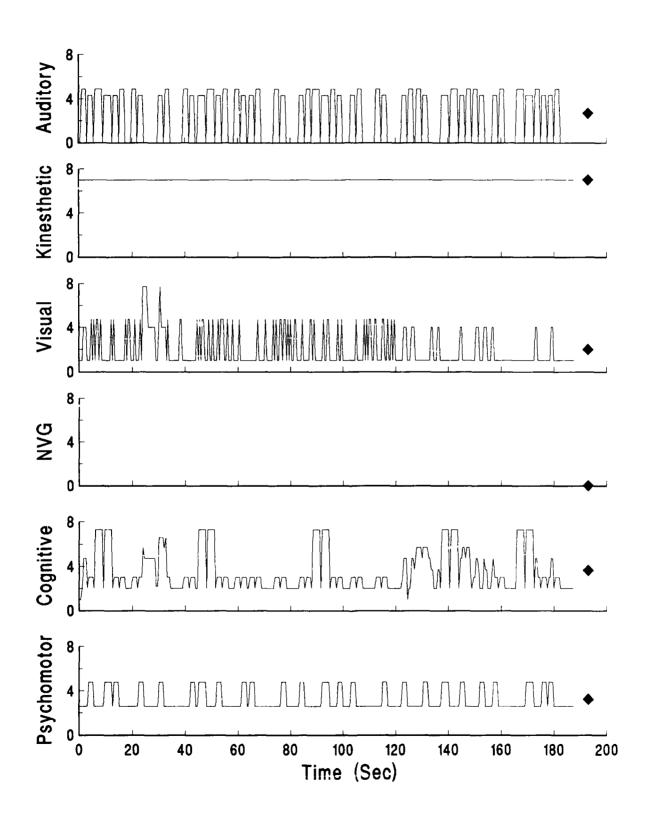
UH-60A PILOT WORKLOAD PREDICTION GRAPHS

This appendix contains the workload prediction graphs for the pilot for each of the 34 UH-60A segments. Each page displays the predicted pilot workload for one segment using 6 graphs; one for each workload component. The diamond at the end of each graph indicates the average component workload for the segment.

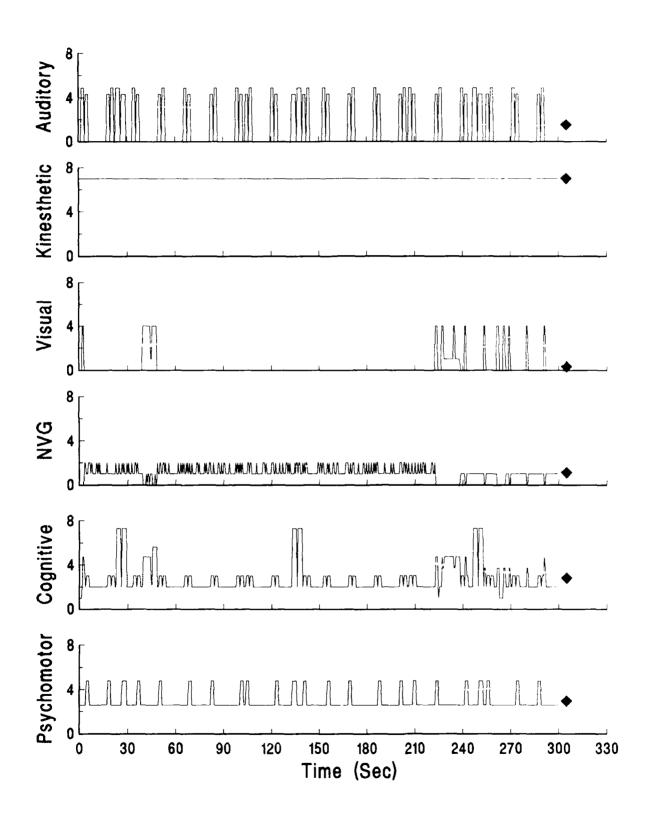
Segment 01: Before Takeoff (Assembly Area)
Pilot - UH-60A



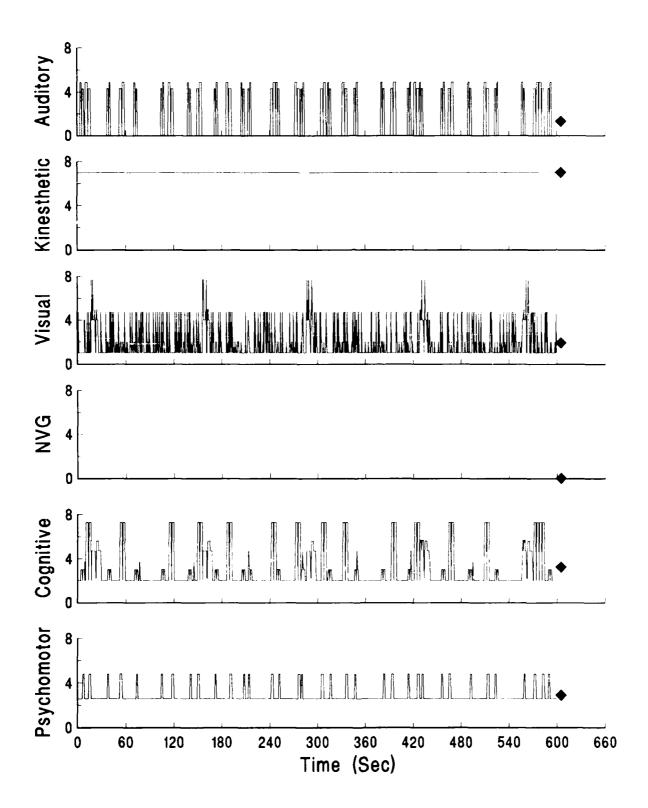
Segment 02: Takeoff Pilot - UH-60A



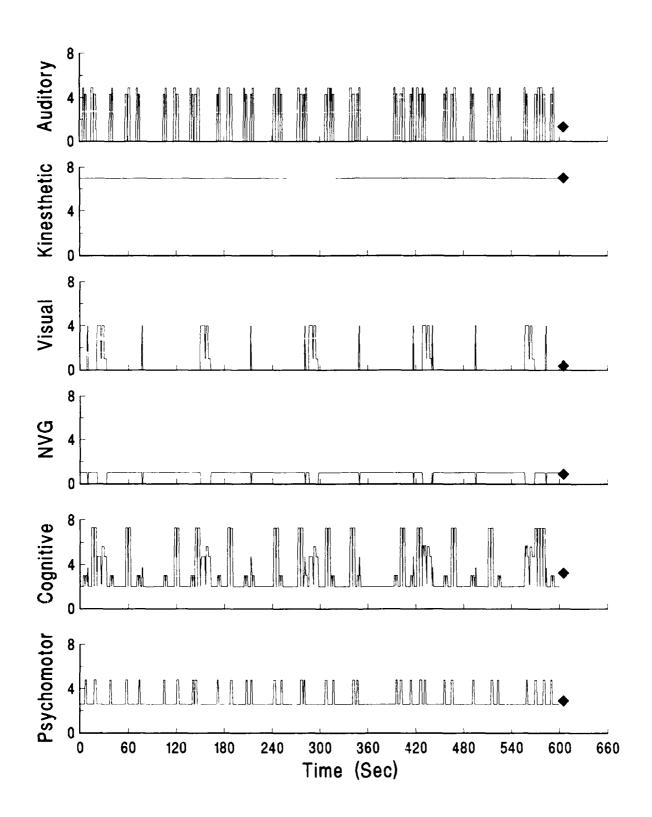
Segment 03: Takeoff [NVG]
Pilot - UH-60A



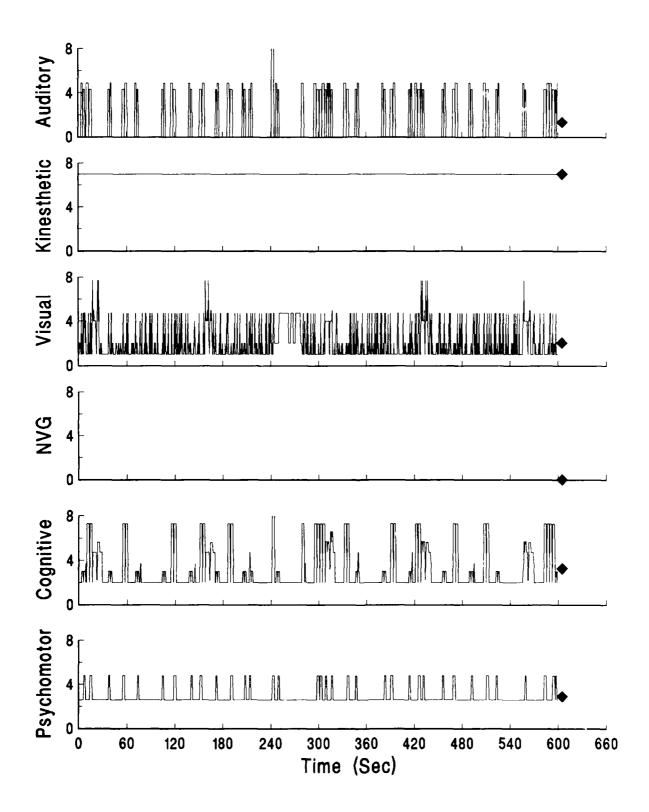
Segment 04: Contour Flight Pilot - UH-60A



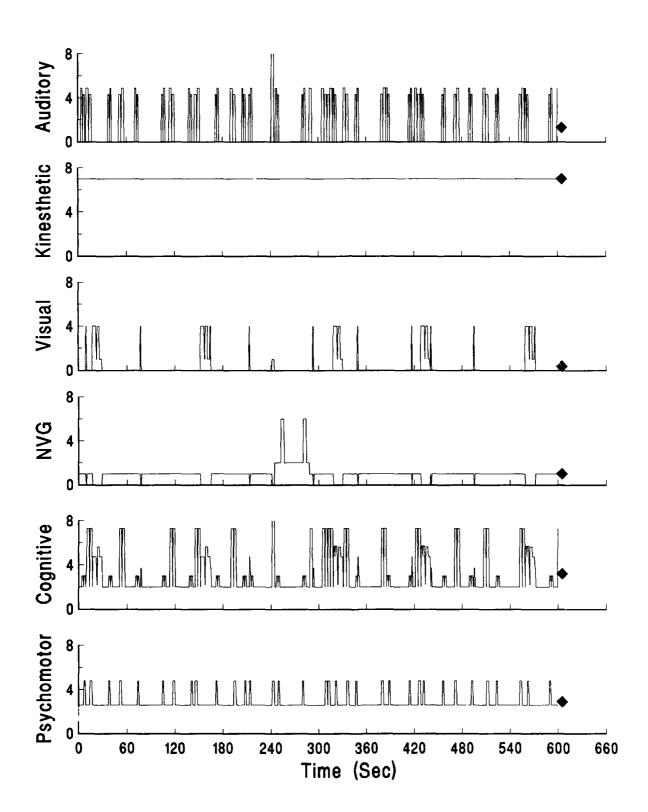
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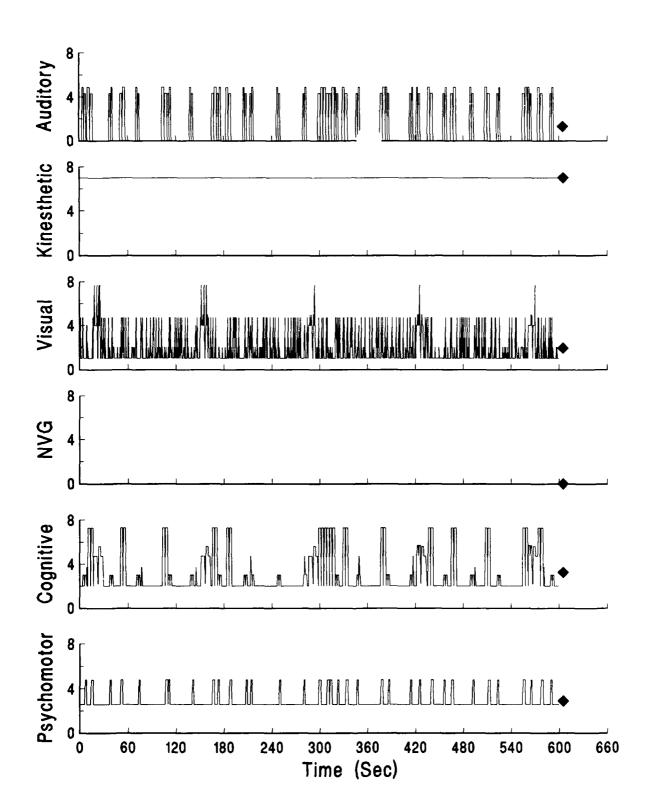
Segment 06: Contour Flight (Threat)
Pilot - UH-60A



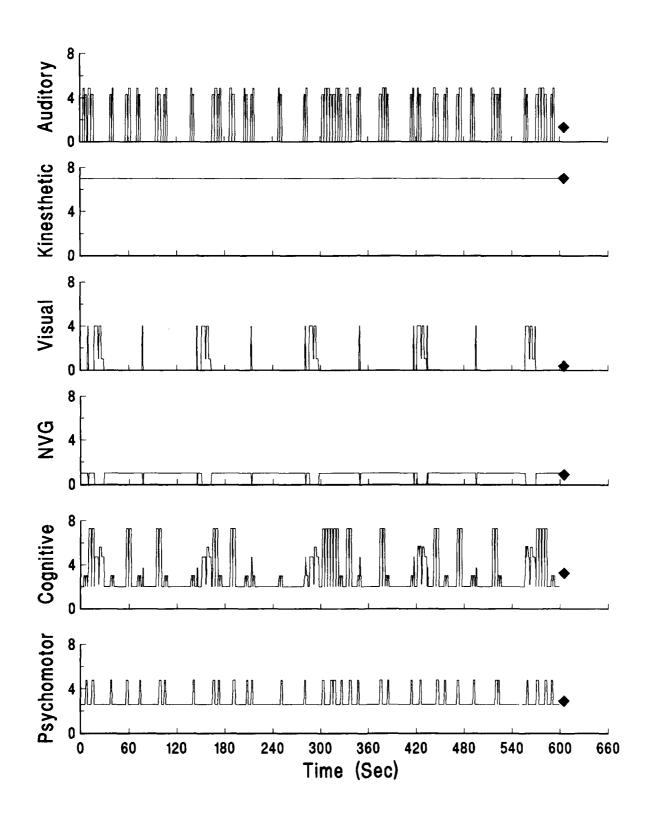
Segment 07: Contour Flight (Threat) [NVG]
Pilot - UH-60A



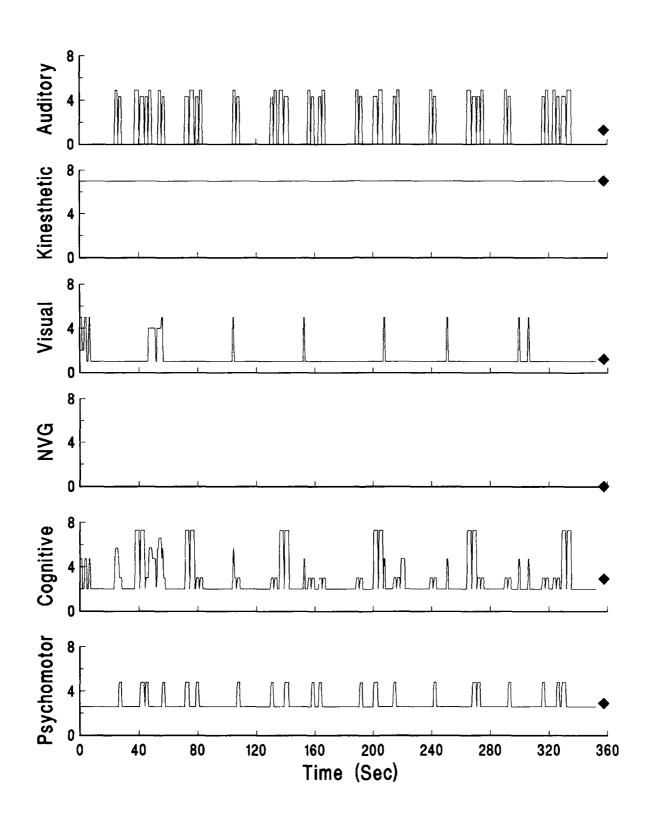
Segment 08: Contour Flight (Mission Change)
Pilot - UH-60A



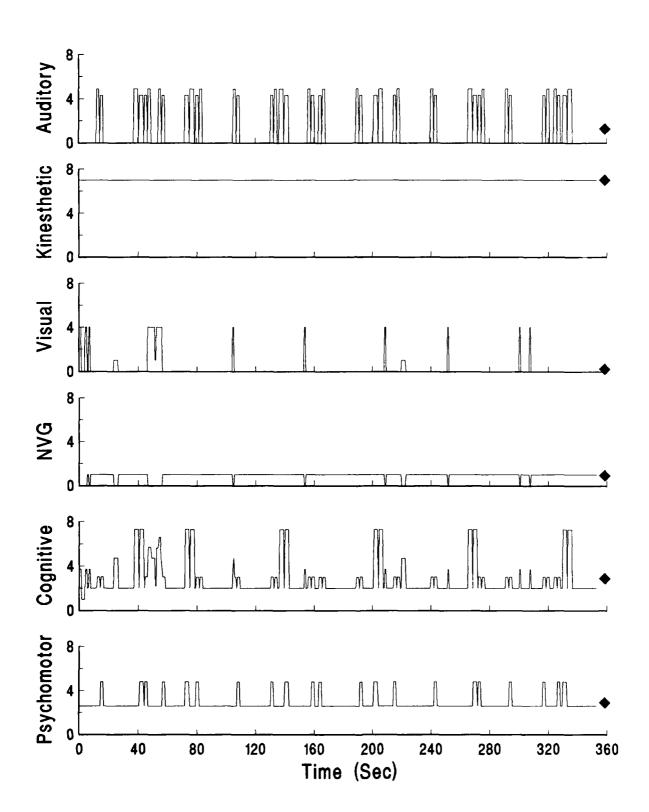
Segment 09: Contour Flight (Mission Change) [NVG]
Pilot - UH-60A



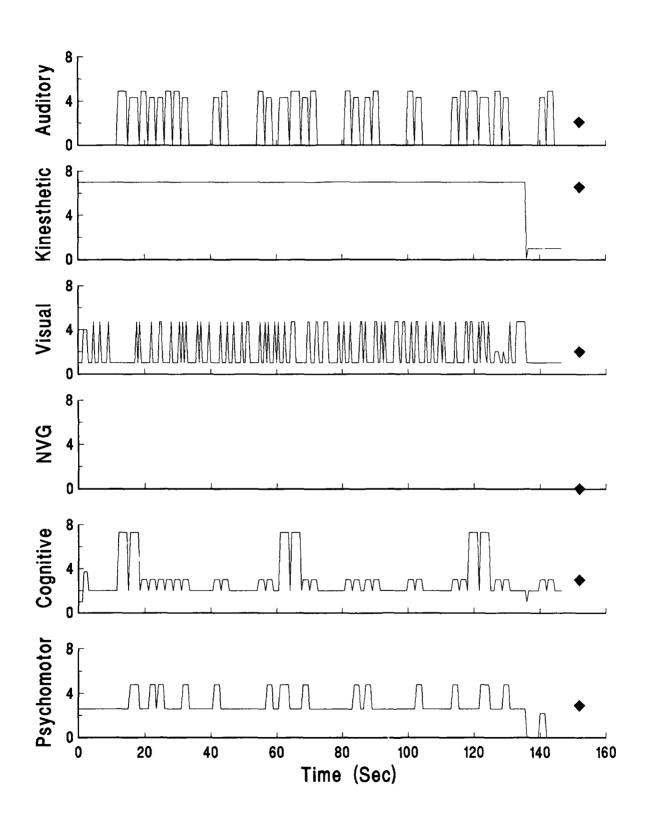
Segment 10: Approach Pilot - UH-60A



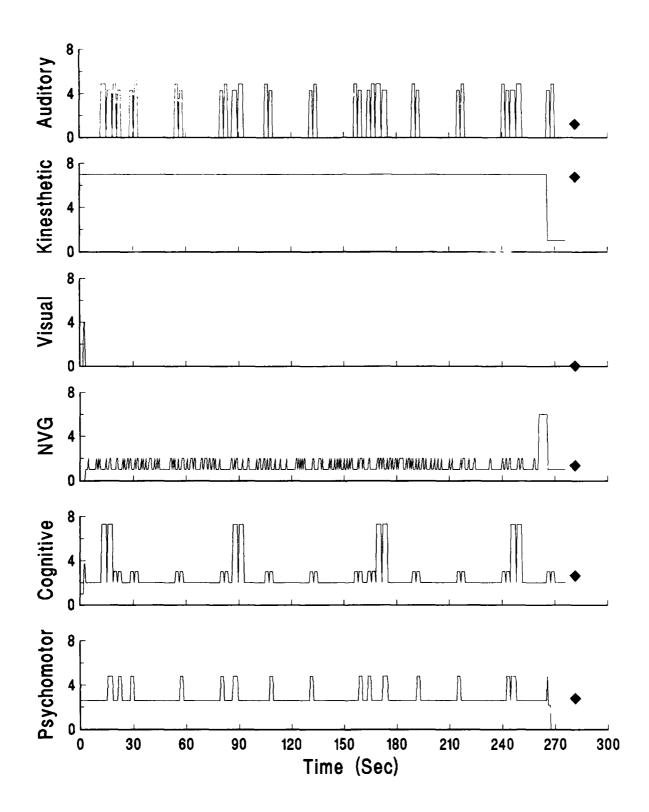
Segment 11: Approach [NVG]
Pilot - UH-60A



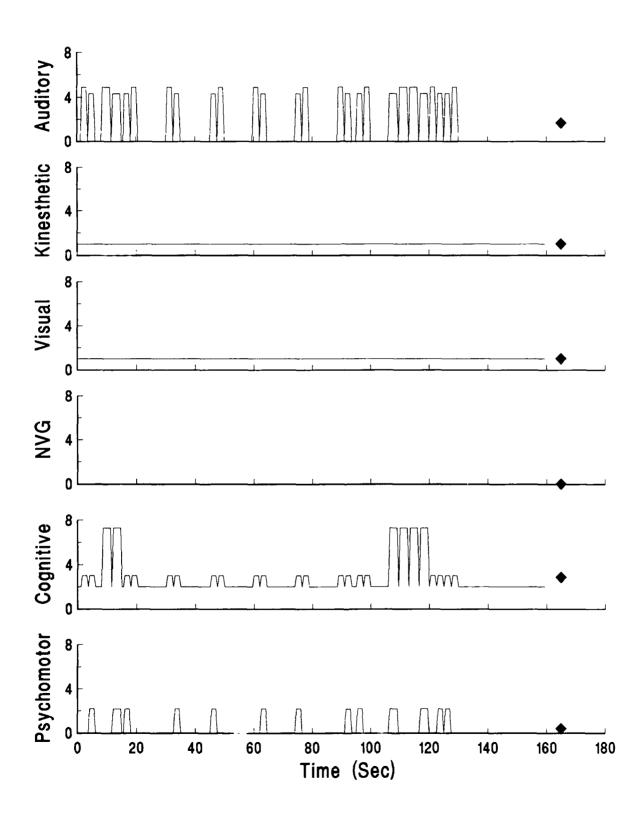
Segment 12: Landing Pilot - UH-60A



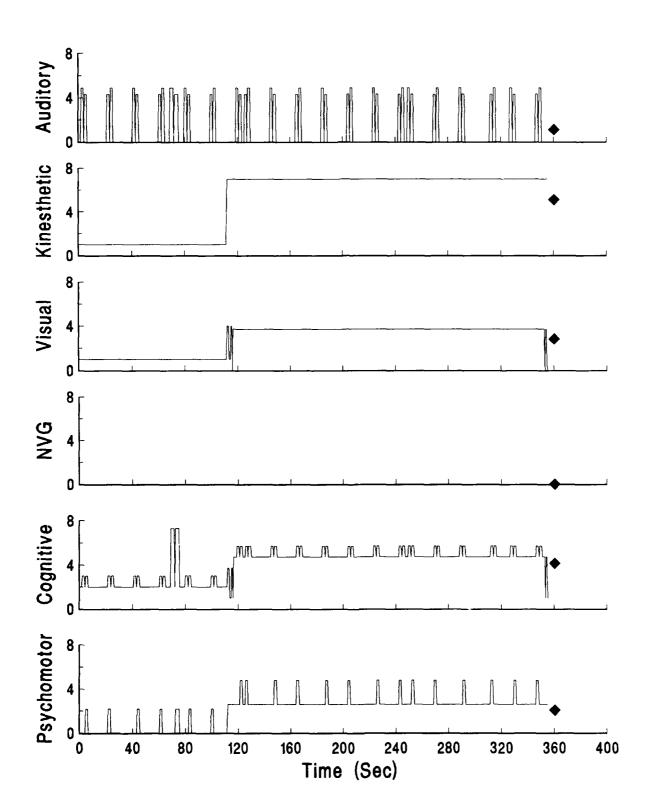
Segment 13: Landing [NVG]
Pilot - UH-60A



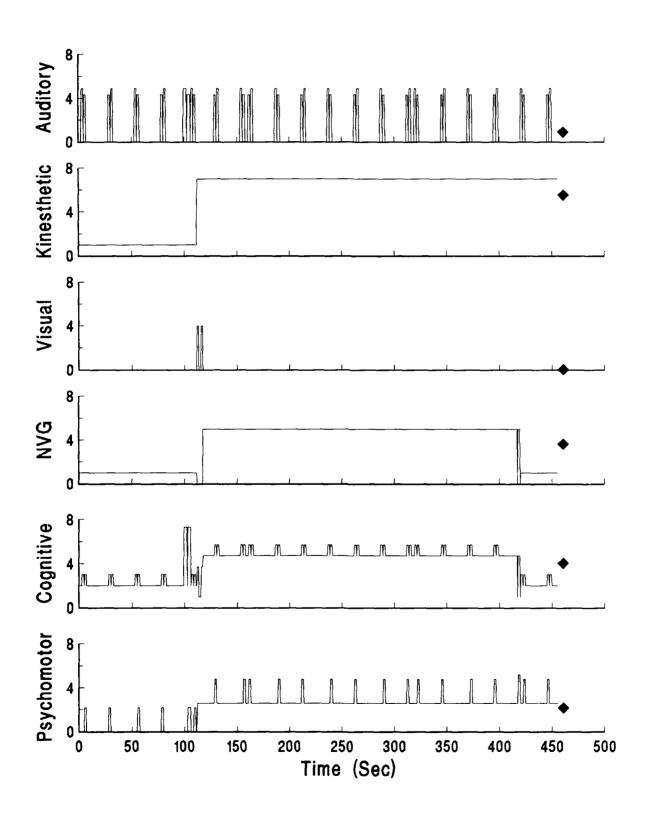
Segment 14: Before Takeoff (Internal Load)
Pilot - UH-60A



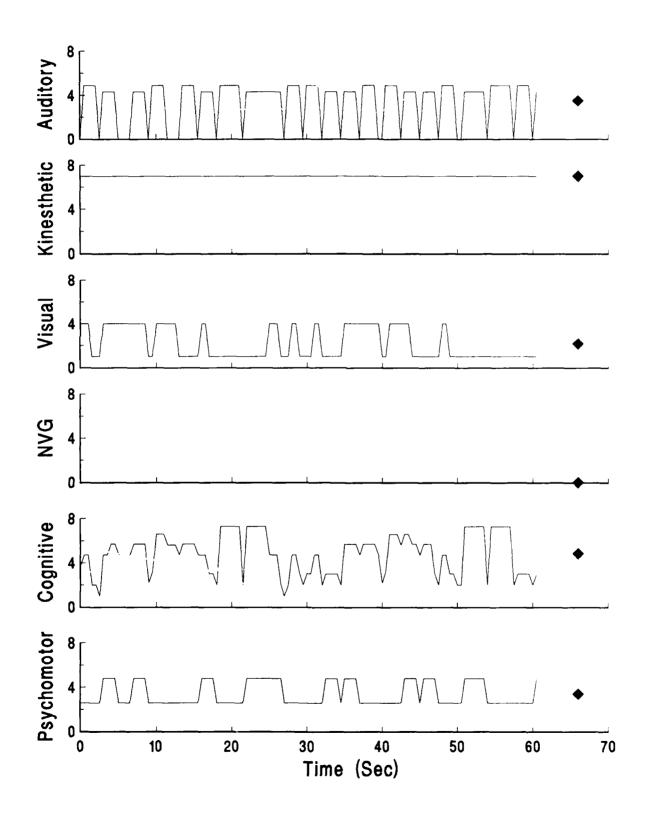
Segment 15: Before Takeoff (External Load)
Pilot - UH-60A



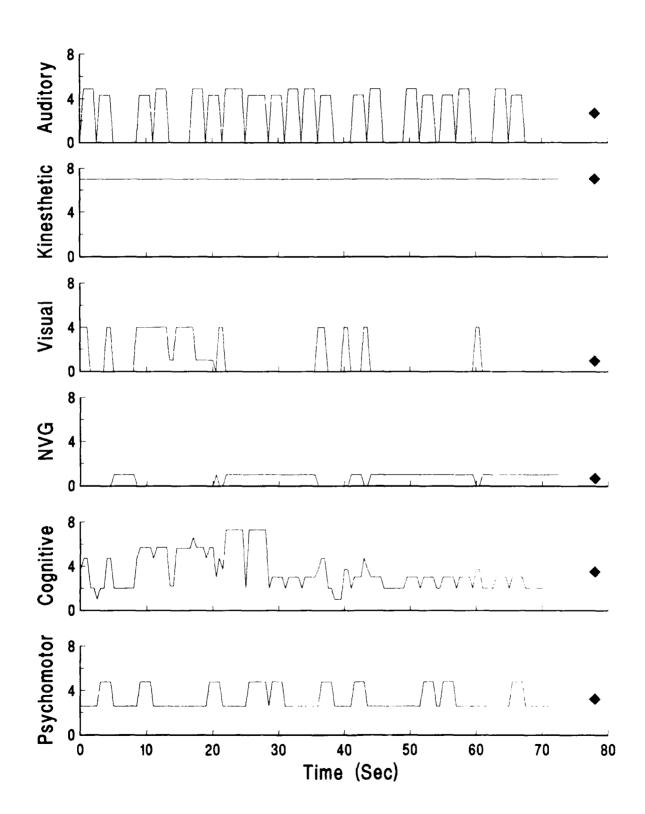
Segment 16: Before Takeoff (External Load) [NVG]
Pilot - UH-60A



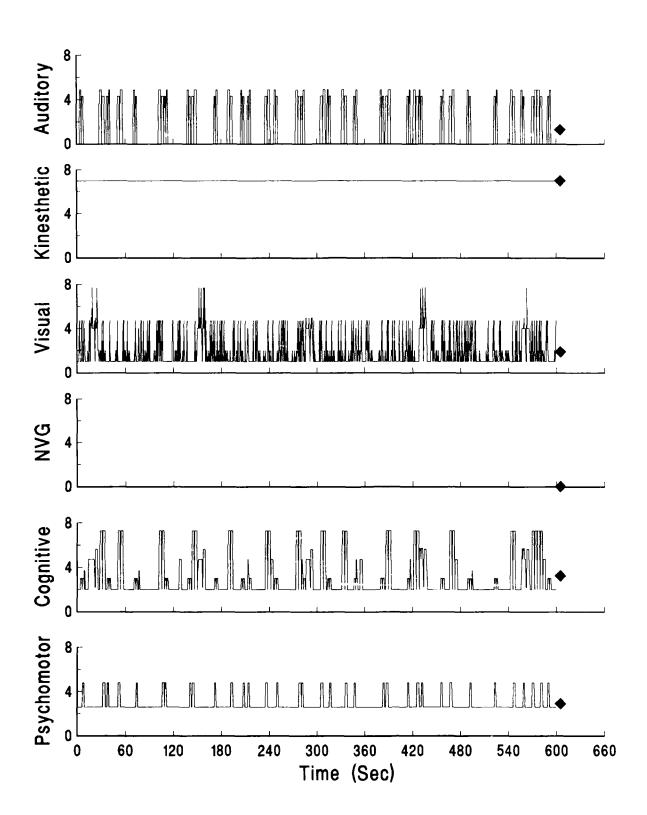
Segment 17: Takeoff (External)
Pilot - UH-60A



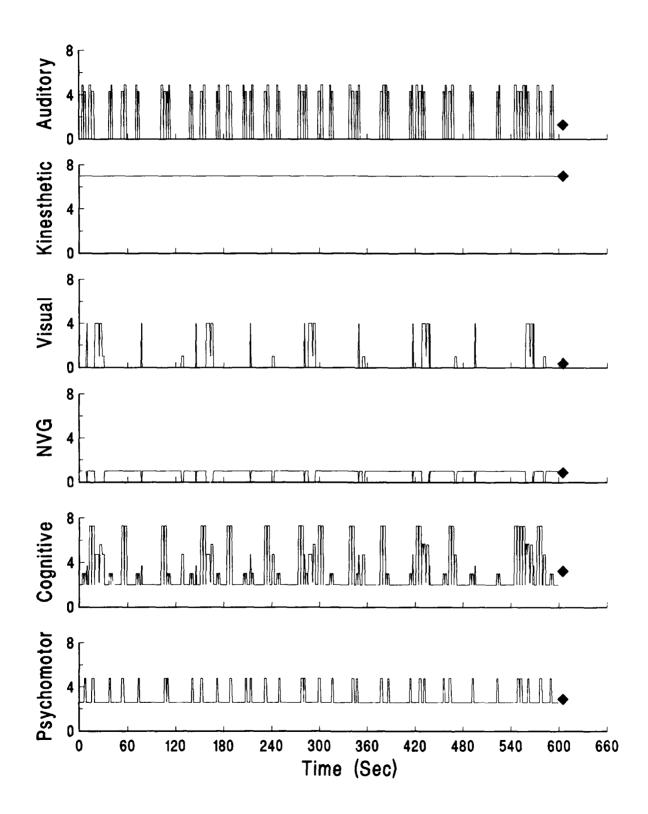
Segment 18: Takeoff (External) [NVG]
Pilot - UH-60A



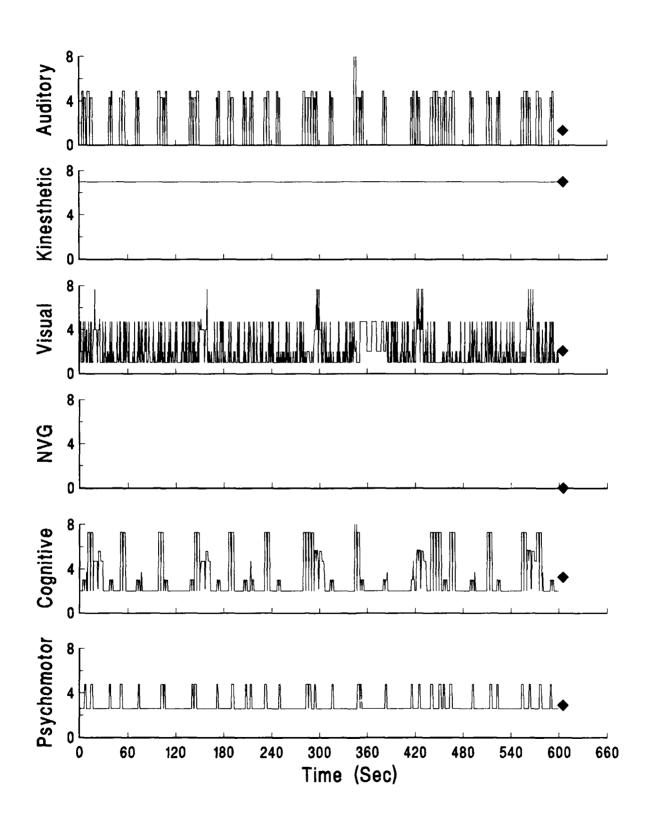
Segment 19: NOE Flight Pilot - UH-60A



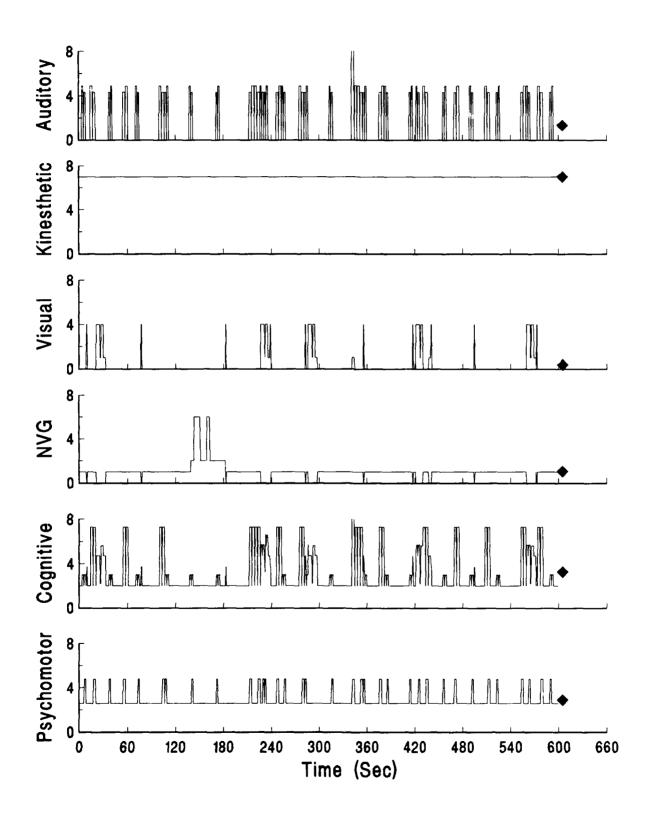
Segment 20: NOE Flight [NVG] Pilot - UH-60A



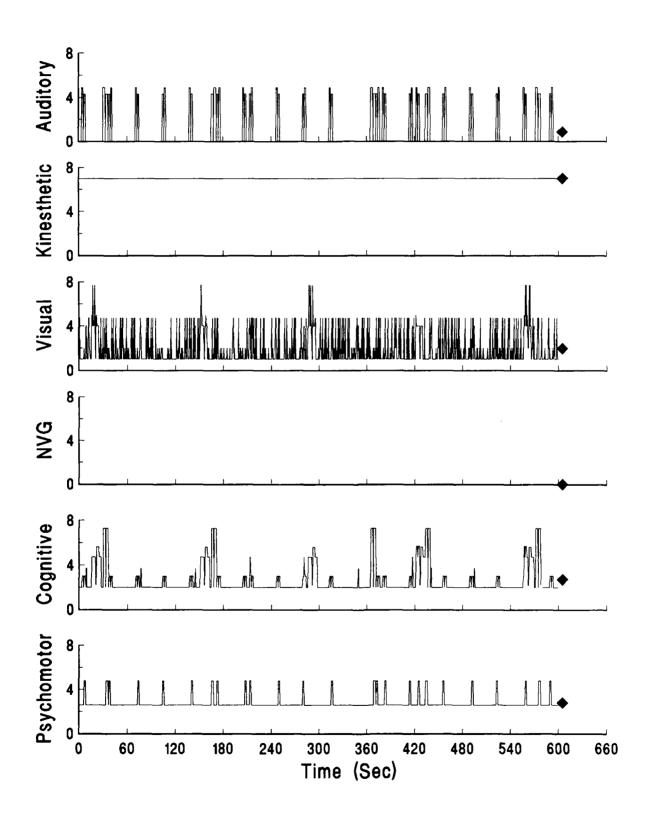
Segment 21: NOE Flight (Threat)
Pilot - UH-60A



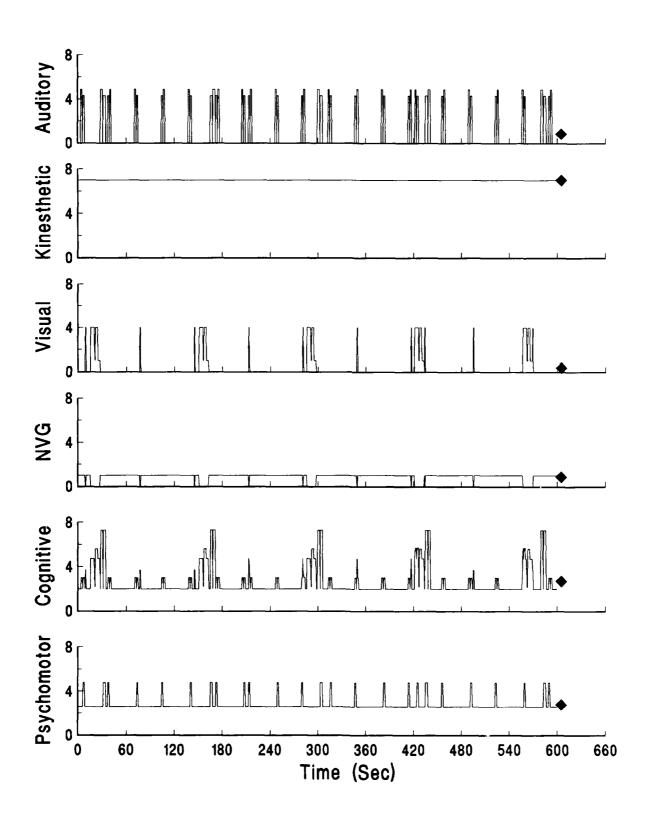
Segment 22: NOE Flight (Threat) [NVG]
Pilot - UH-60A



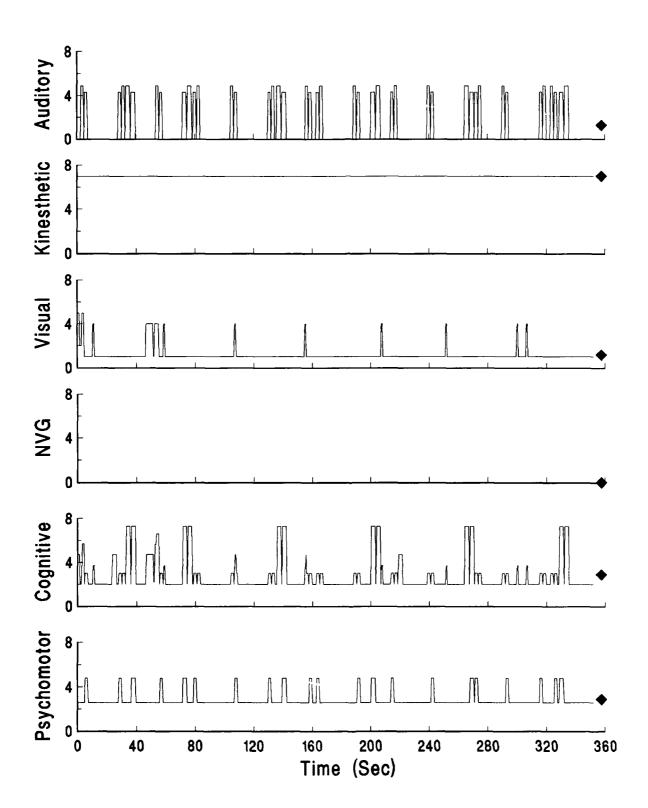
Segment 23: NOE Flight (Mission Change)
Pilot - UH-60A



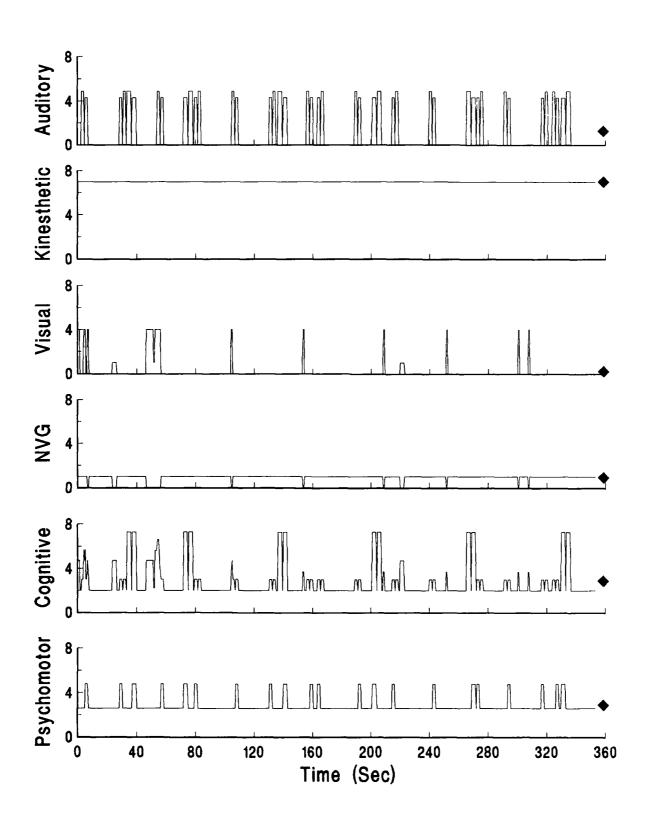
Segment 24: NOE Flight (Mission Change) [NVG]
Pilot - UH-60A



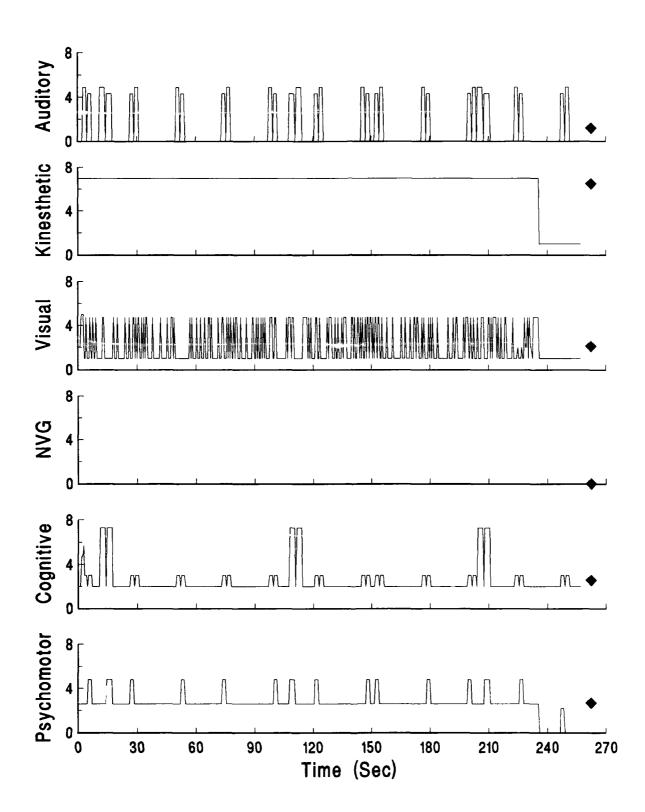
Segment 25: Approach (LZ)
Pilot - UH-60A



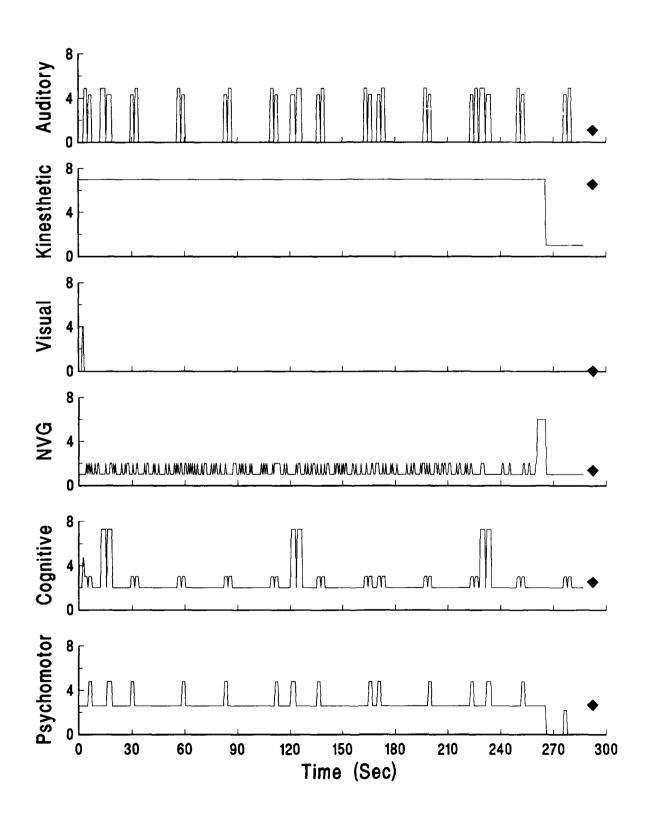
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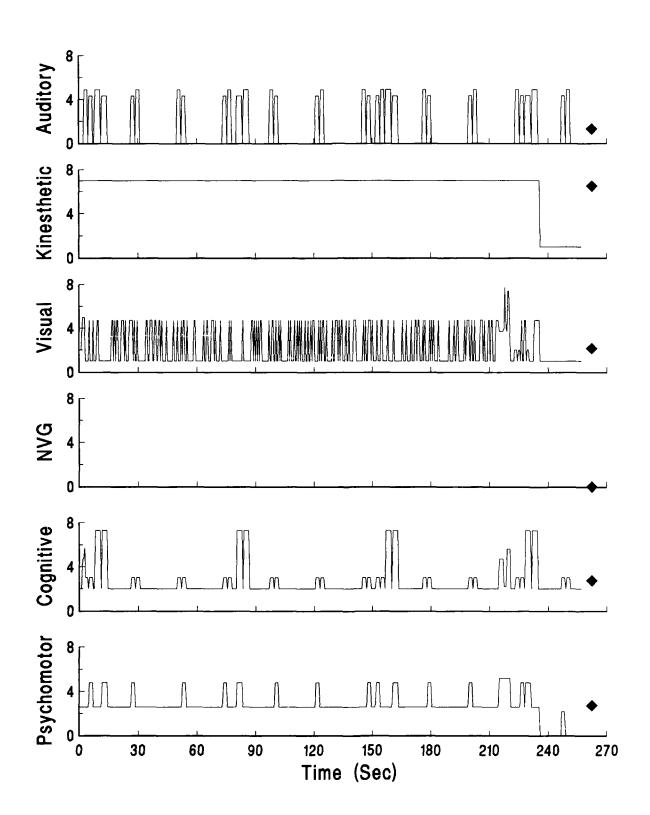
Segment 27: Landing (LZ, Internal Load)
Pilot - UH-60A



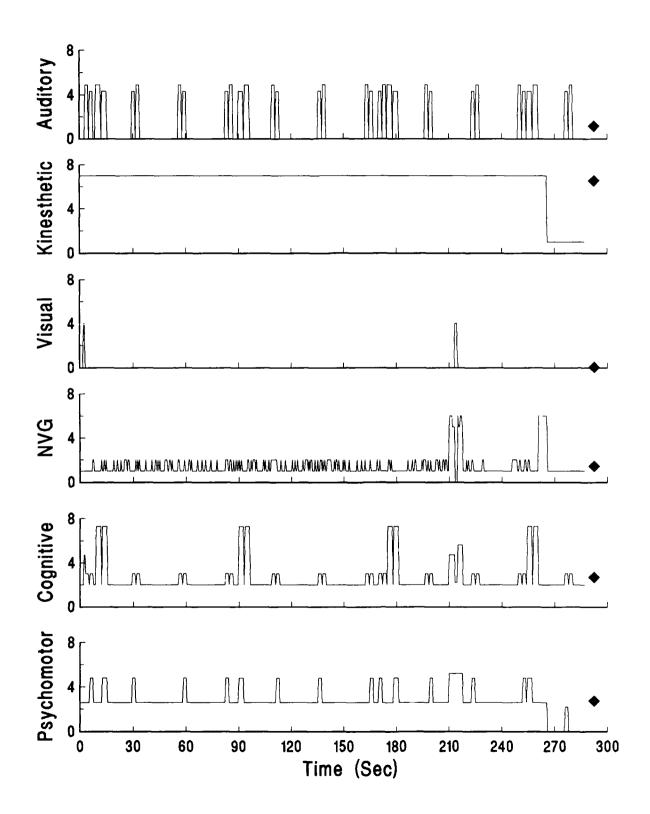
Segment 28: Landing (LZ, Internal Load) [NVG]
Pilot - UH-60A



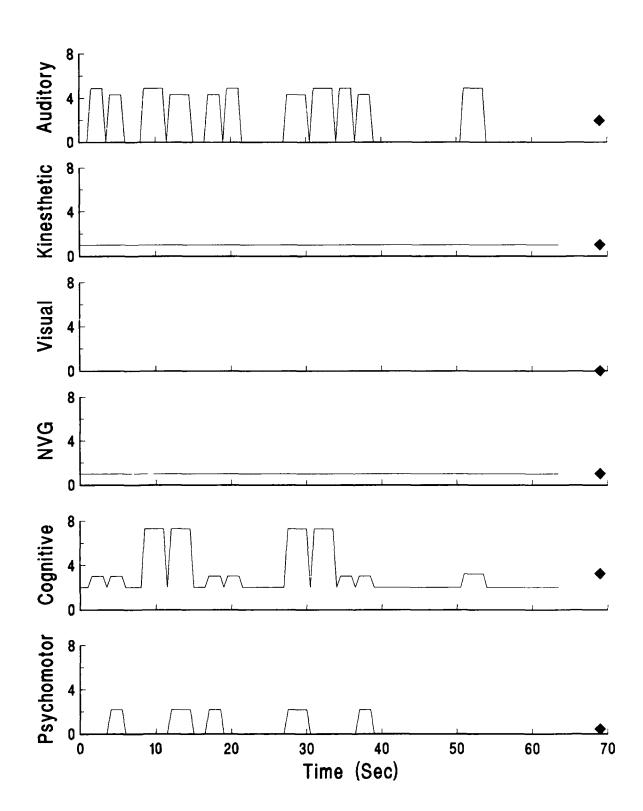
Segment 29: Landing (LZ, External Load)
Pilot - UH-60A



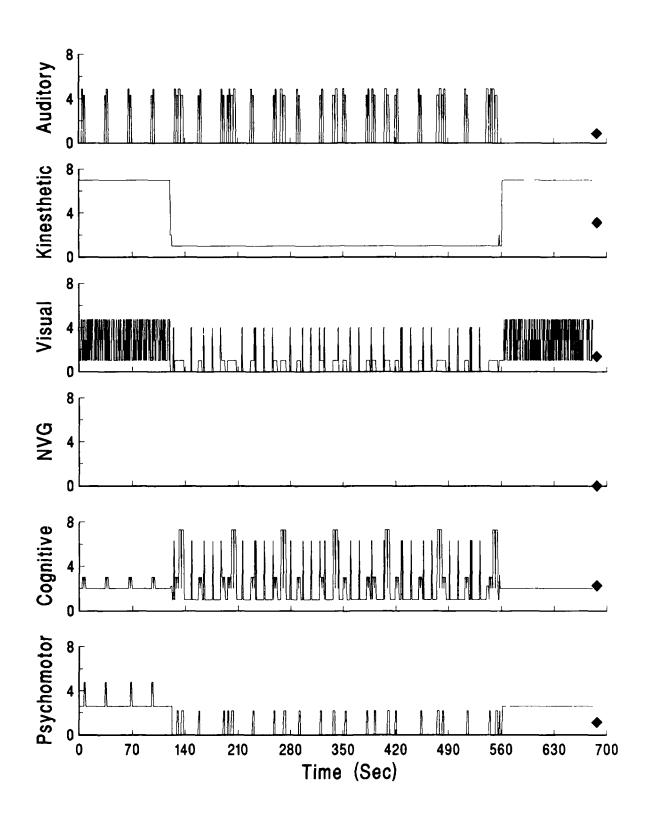
Segment 30: Landing (LZ, External Load) [NVG]
Pilot - UH-60A



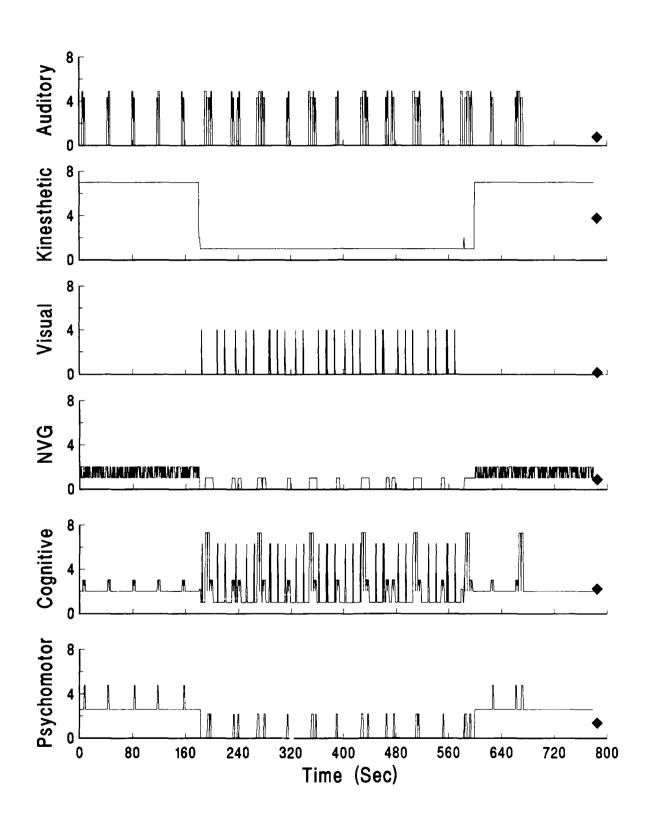
Segment 31: Before Takeoff (LZ)
Pilot - UH-60A



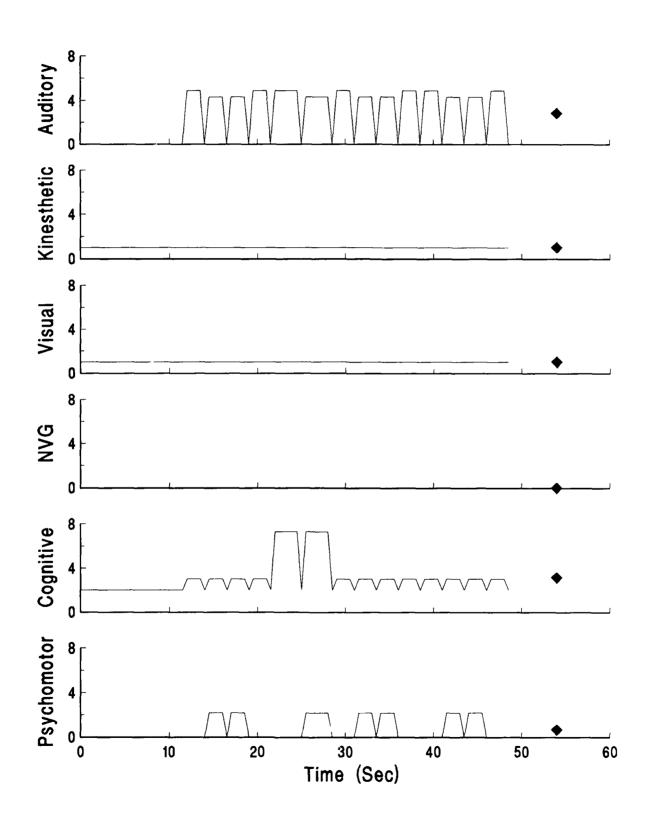
Segment 32: FARP Procedures
Pilot - UH-60A



Segment 33: FARP Procedures [NVG]
Pilot - UH-60A



Segment 34: Before Takeoff (FARP)
Pilot - UH-60A

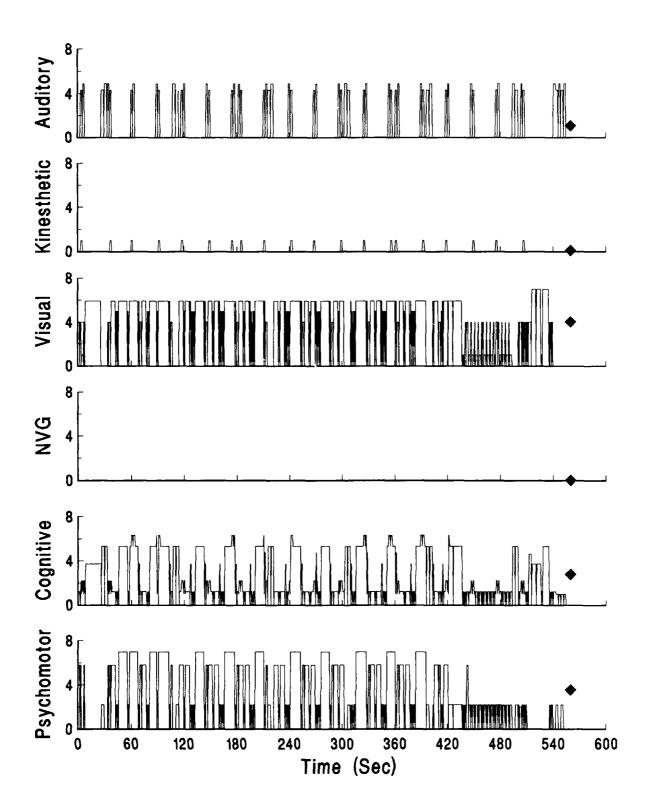


APPENDIX B

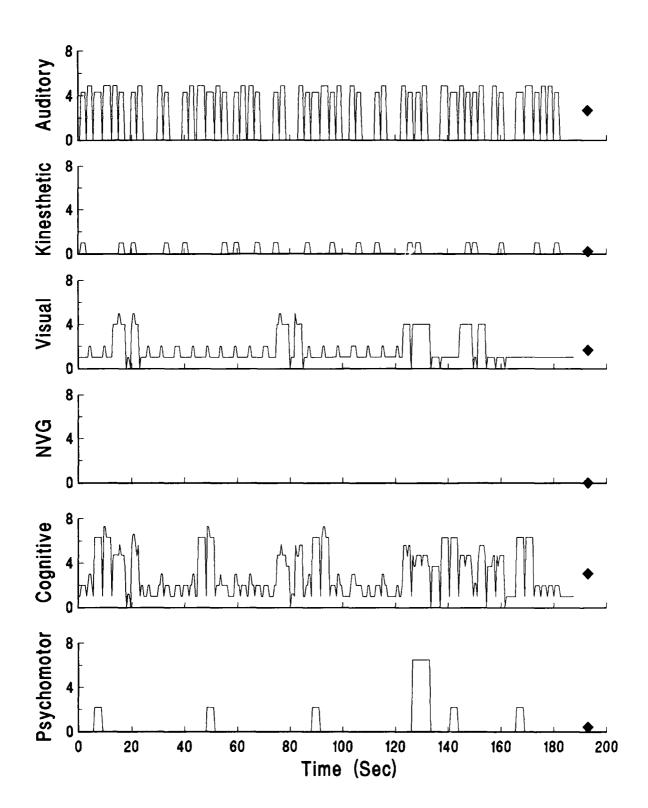
UH-60A COPILOT WORKLOAD PREDICTION GRAPHS

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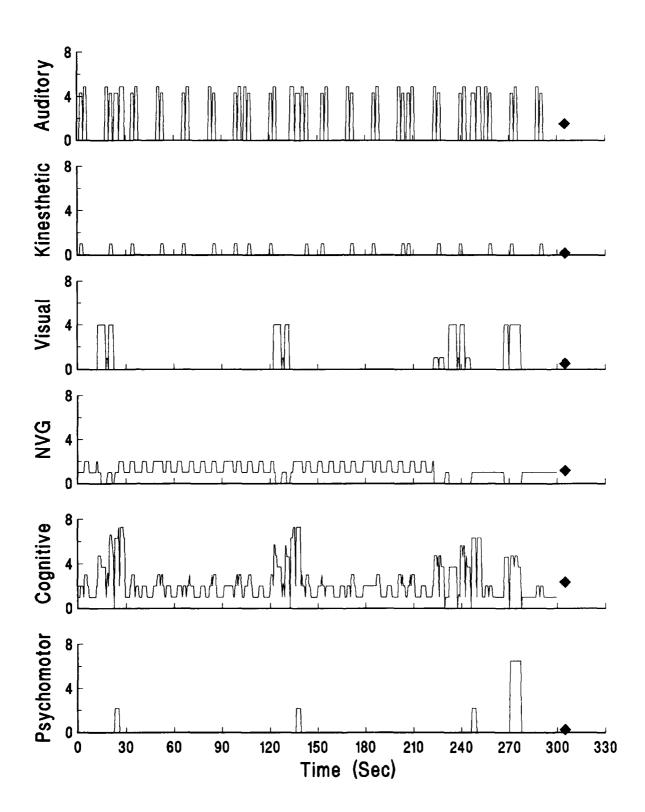
Segment 01: Before Takeoff (Assembly Area)
Copilot - UH-60A



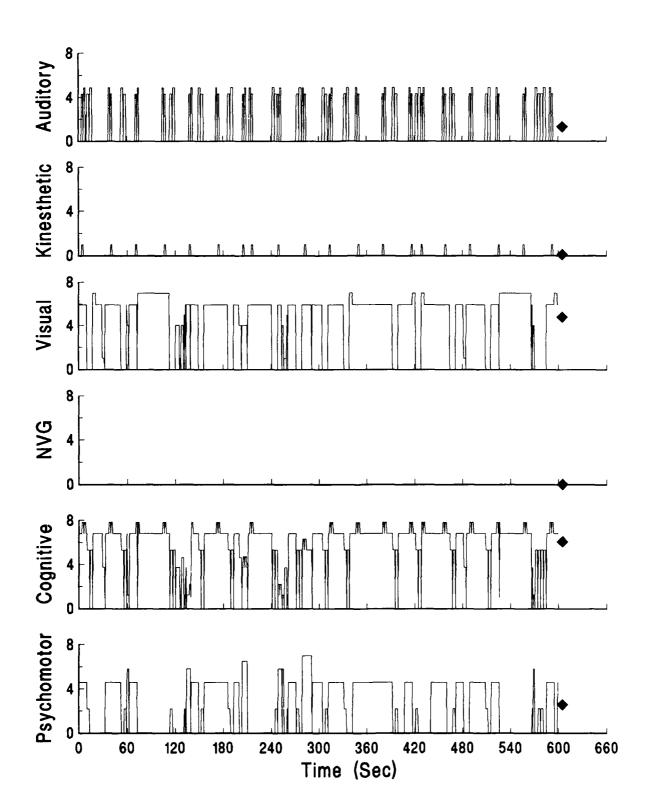
Segment 02: Takeoff Copilot - UH-60A



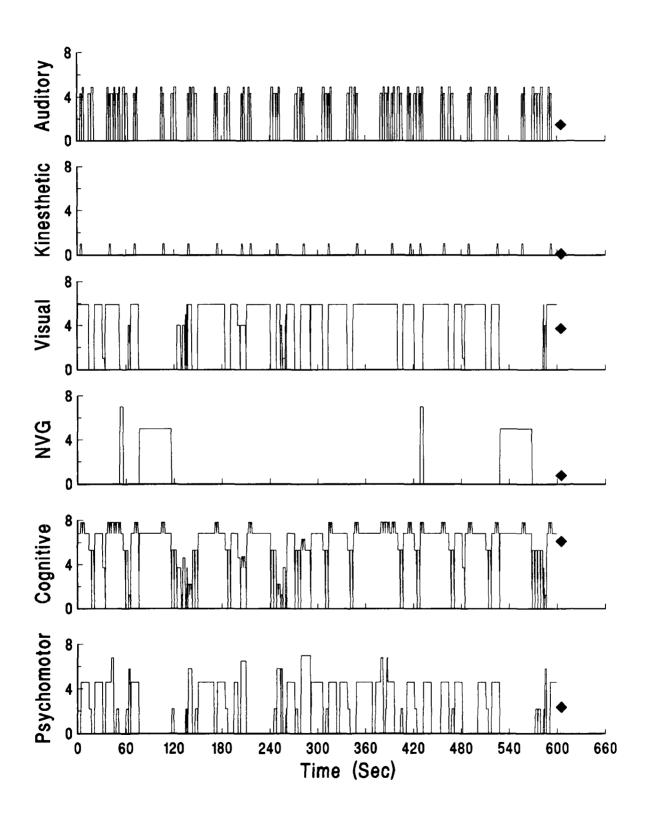
Segment 03: Takeoff [NVG] Copilot - UH-60A



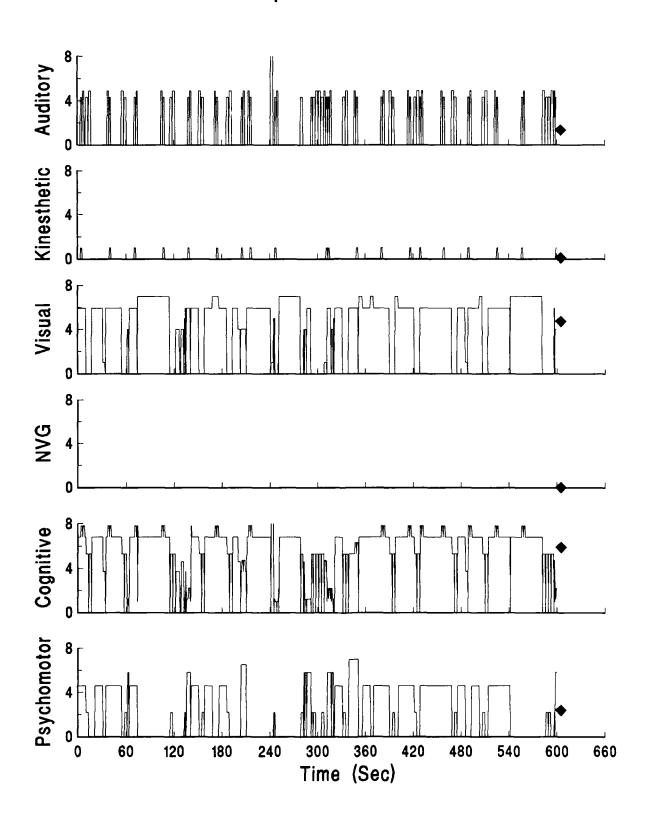
Segment 04: Contour Flight Copilot - UH-60A



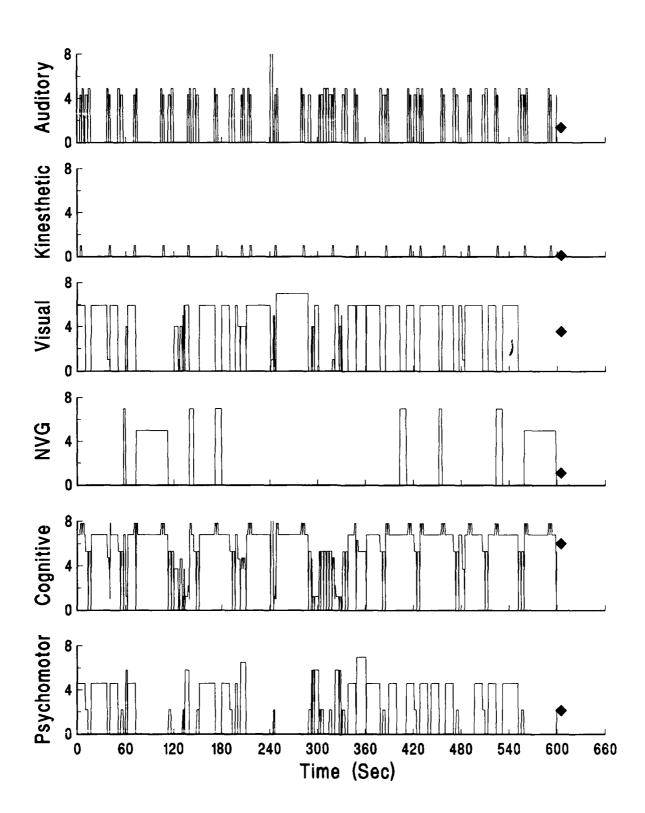
Segment 05: Contour Flight [NVG]
Copilot - UH-60A



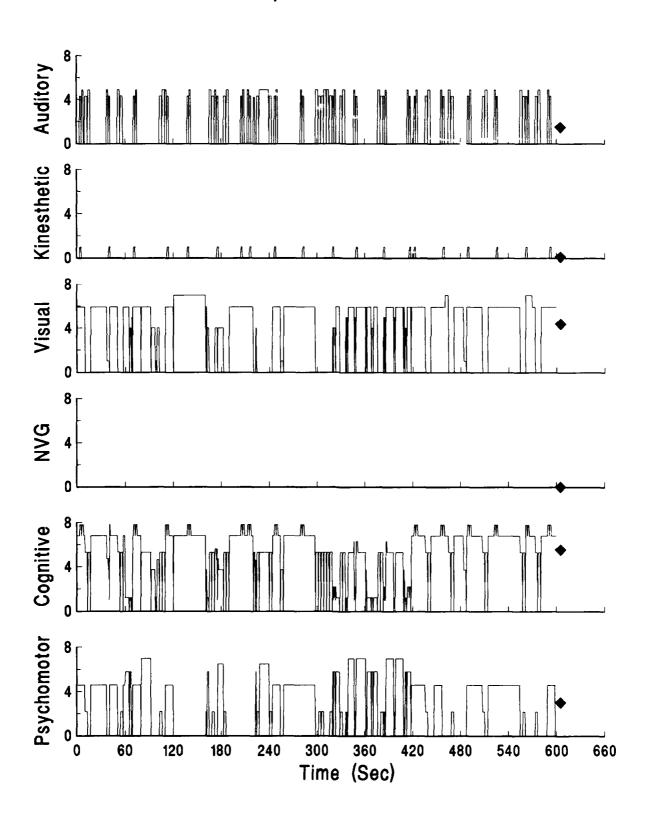
Segment 06: Contour Flight (Threat)
Copilot - UH-60A



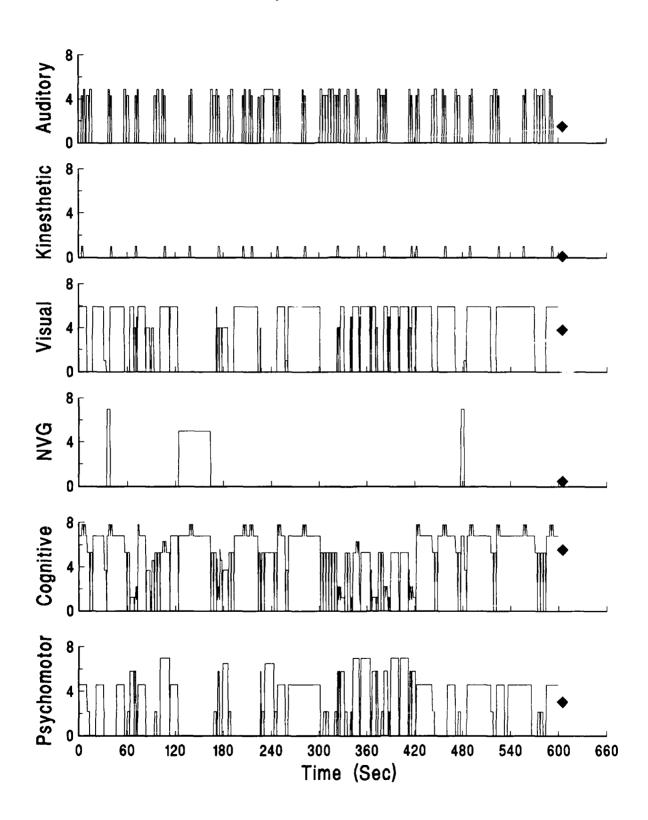
Segment 07: Contour Flight (Threat) [NVG]
Copilot - UH-60A



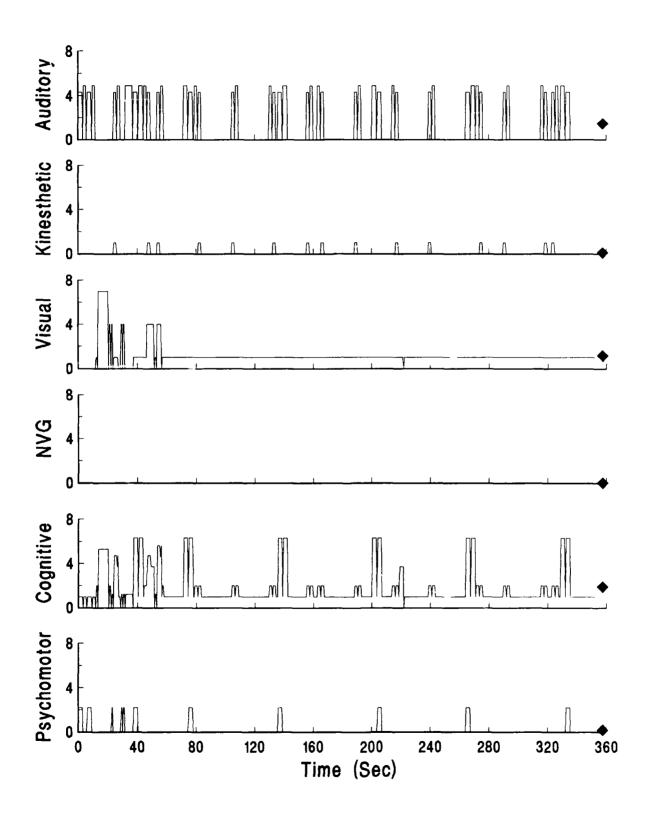
Segment 08: Contour Flight (Mission Change)
Copilot - UH-60A



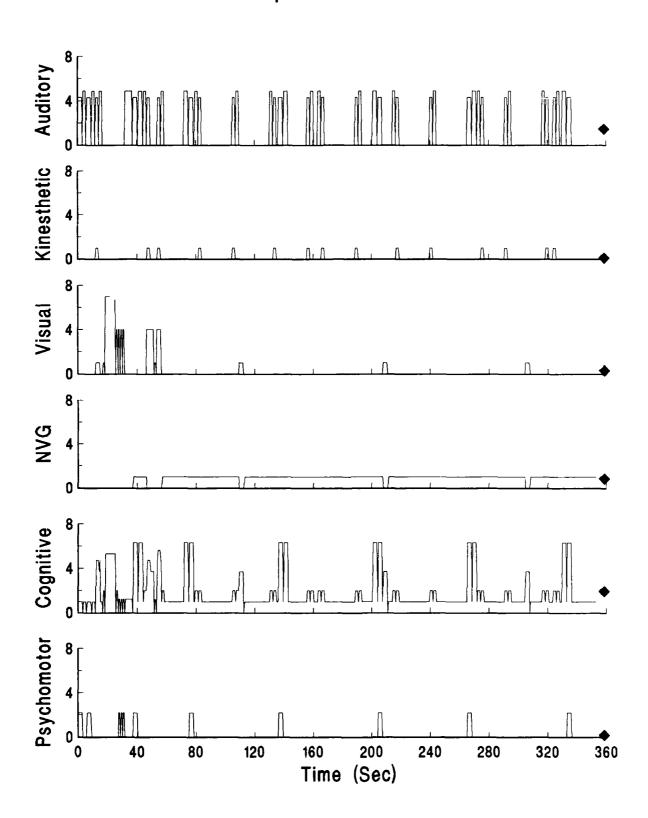
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Copilot - UH-60A



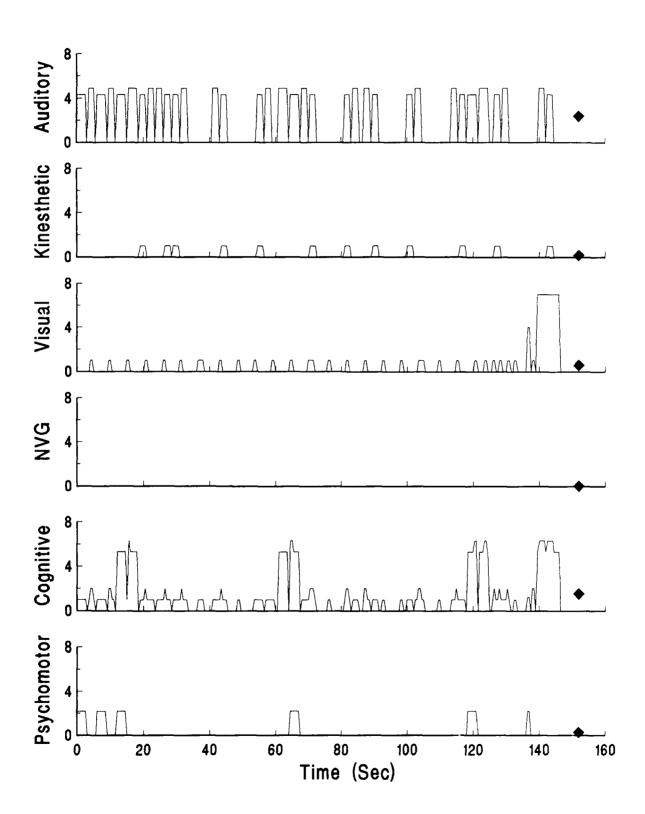
Segment 10: Approach Copilot - UH-60A



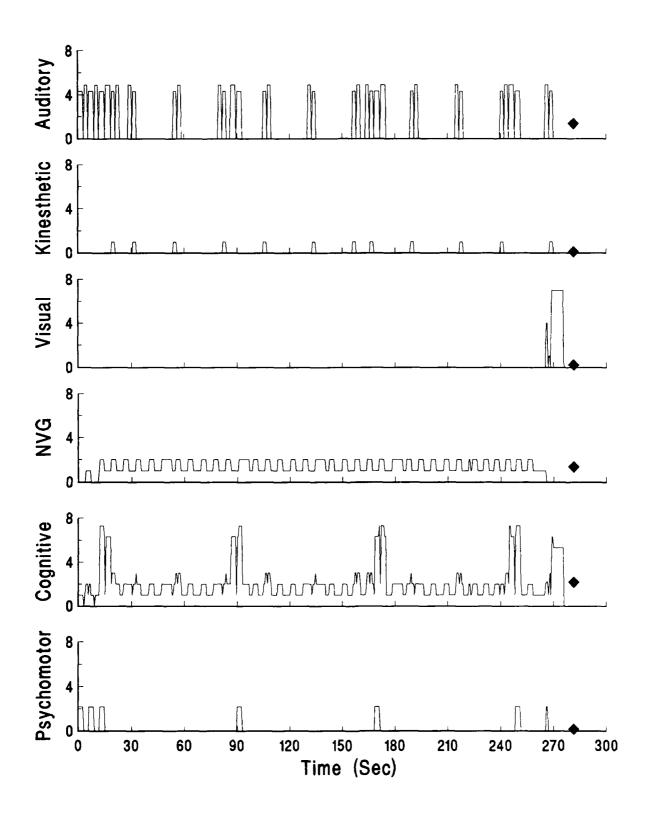
Segment 11: Approach [NVG]
Copilot - UH-60A



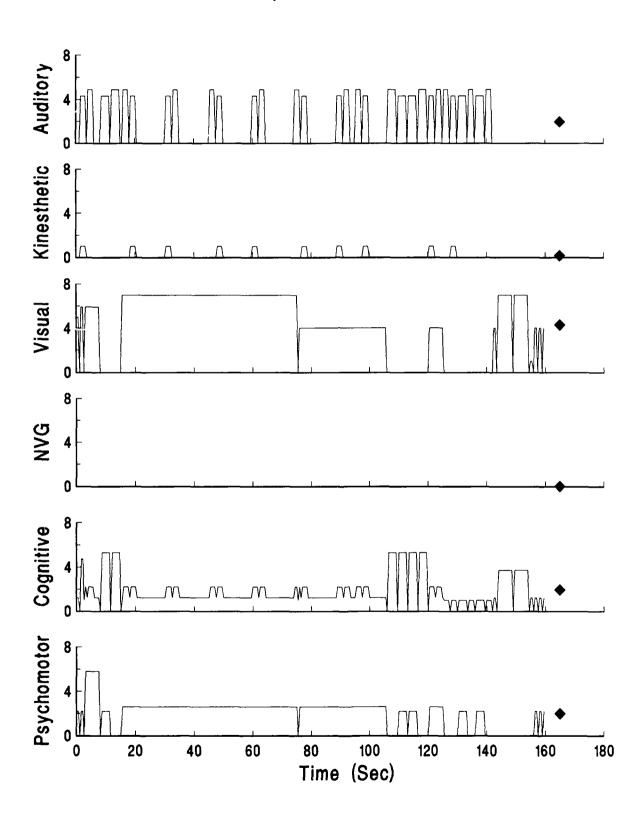
Segment 12: Landing Copilot - UH-60A



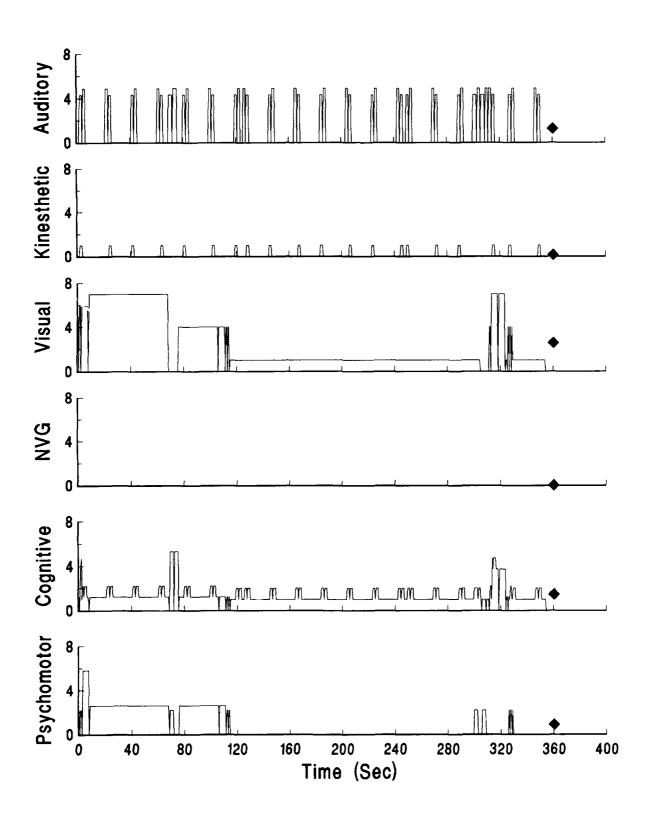
Segment 13: Landing [NVG]
Copilot - UH-60A



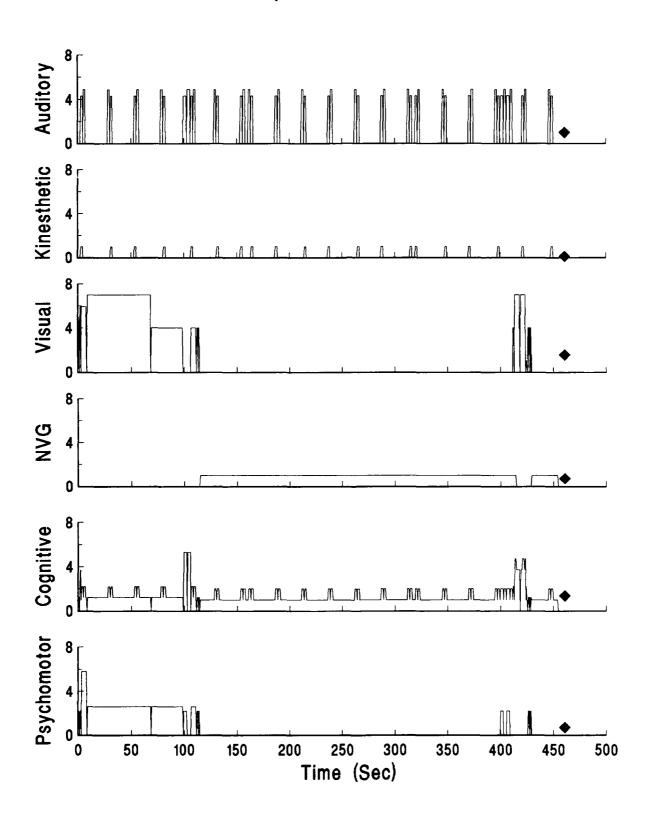
Segment 14: Before Takeoff (Internal Load)
Copilot - UH-60A



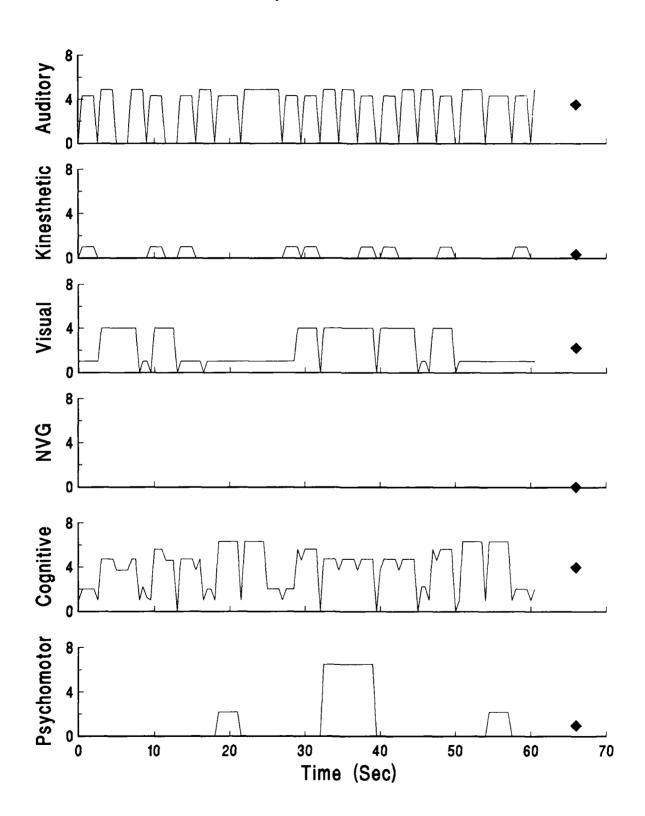
Segment 15: Before Takeoff (External Load)
Copilot - UH-60A



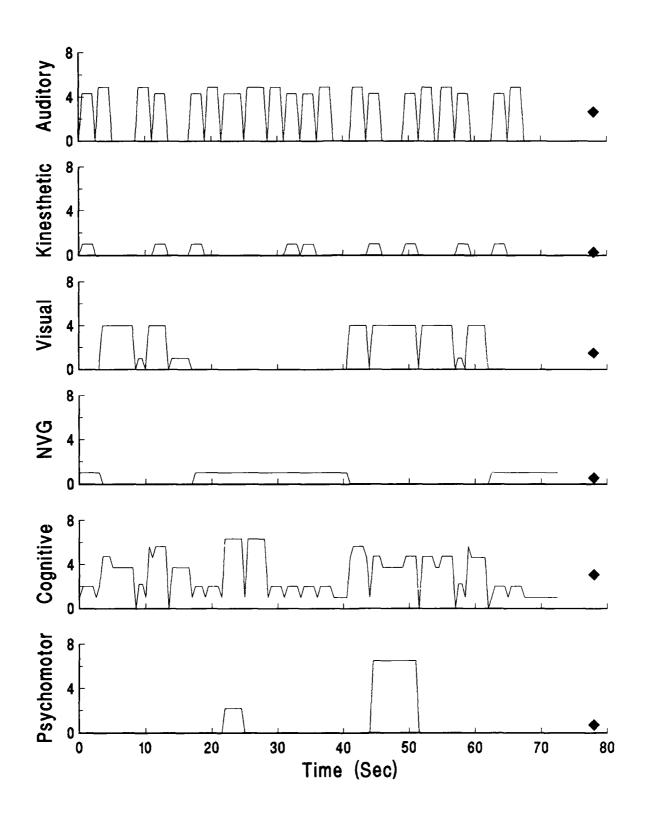
Segment 16: Before Takeoff (External Load) [NVG]
Copilot - UH-60A



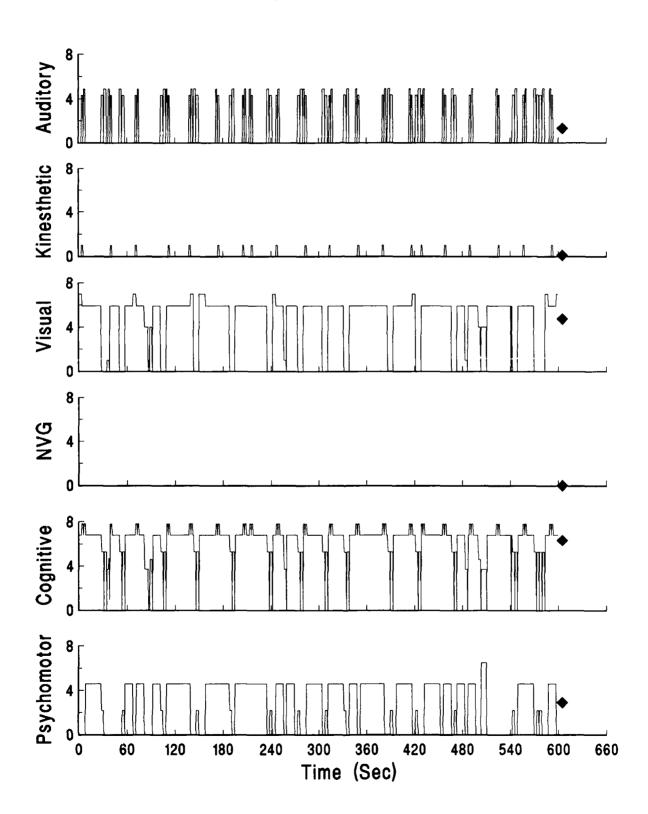
Segment 17: Takeoff (External)
Copilot - UH-60A



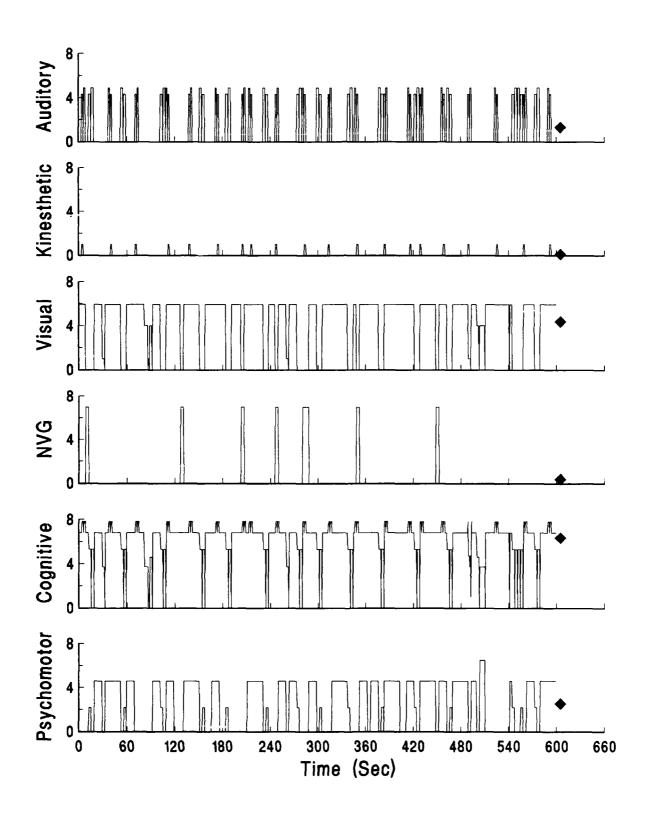
Segment 18: Takeoff (External) [NVG]
Copilot - UH-60A



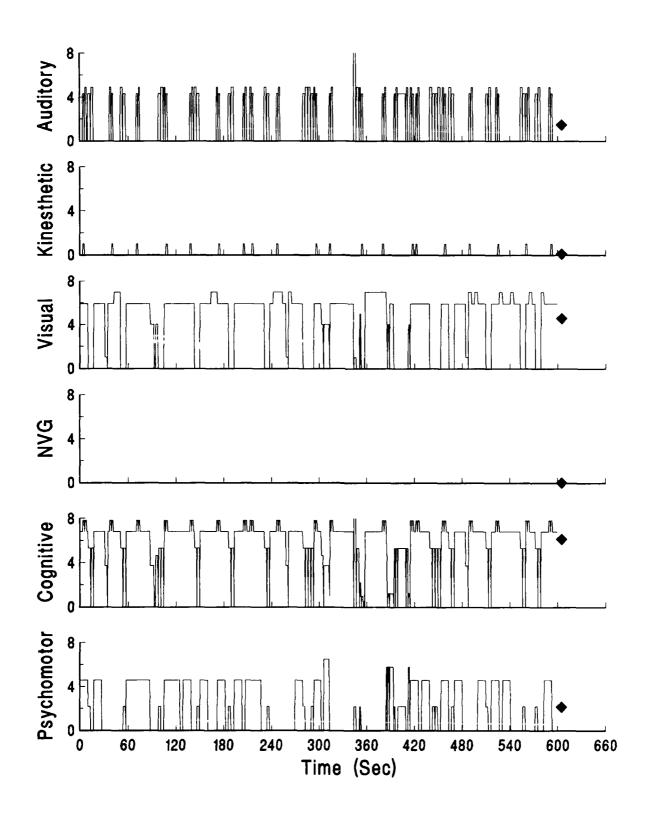
Segment 19: NOE Flight Copilot - UH-60A



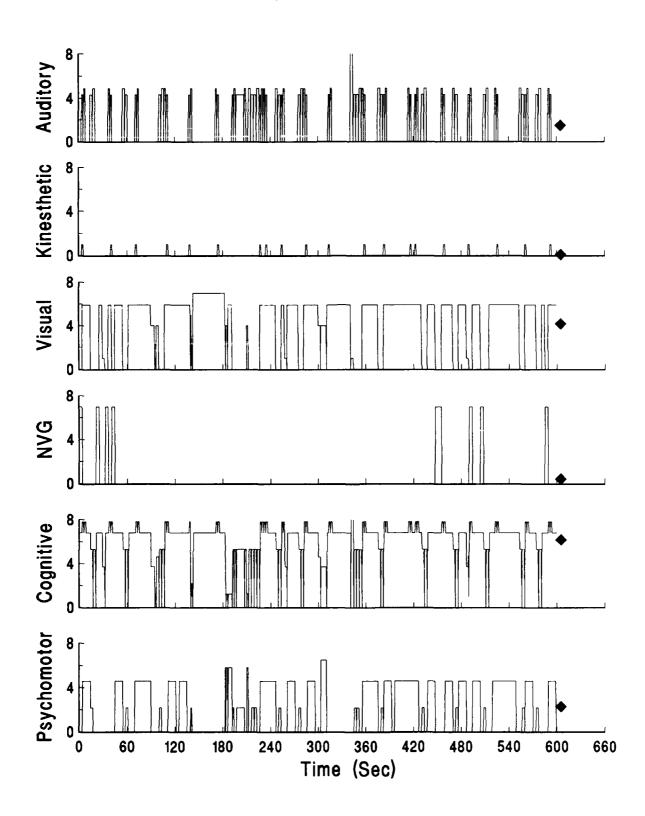
Segment 20: NOE Flight [NVG]
Copilot - UH-60A



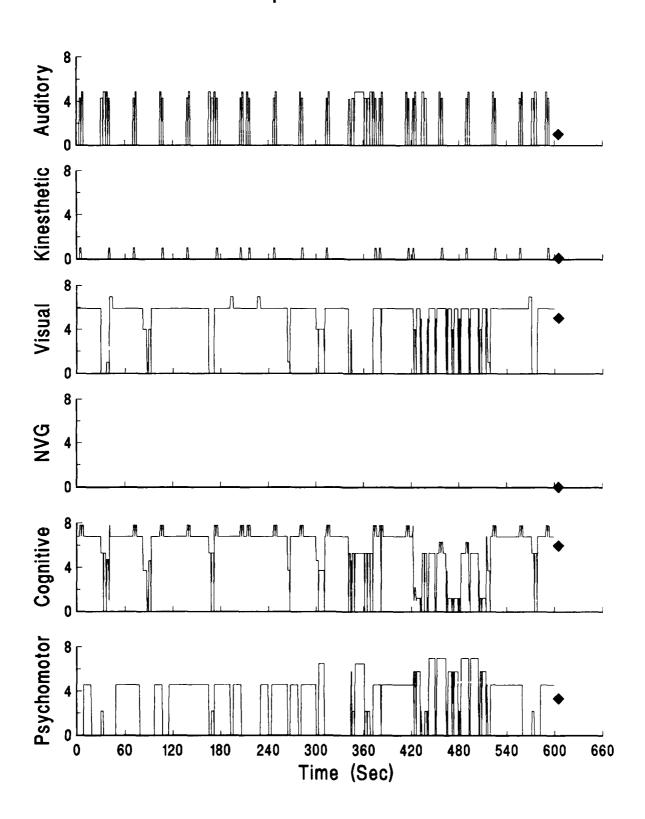
Segment 21: NOE Flight (Threat)
Copilot - UH-60A



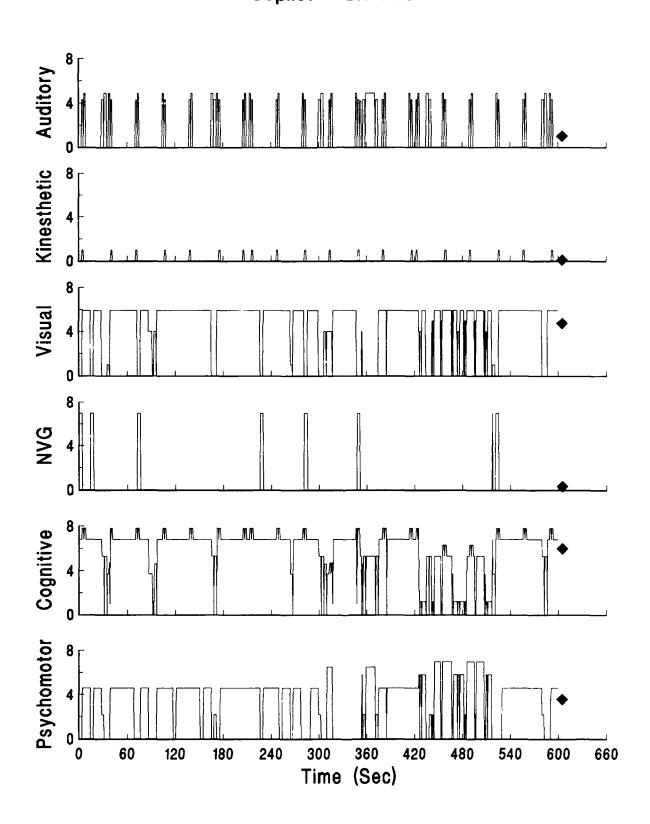
Segment 22: NOE Flight (Threat) [NVG]
Copilot - UH-60A



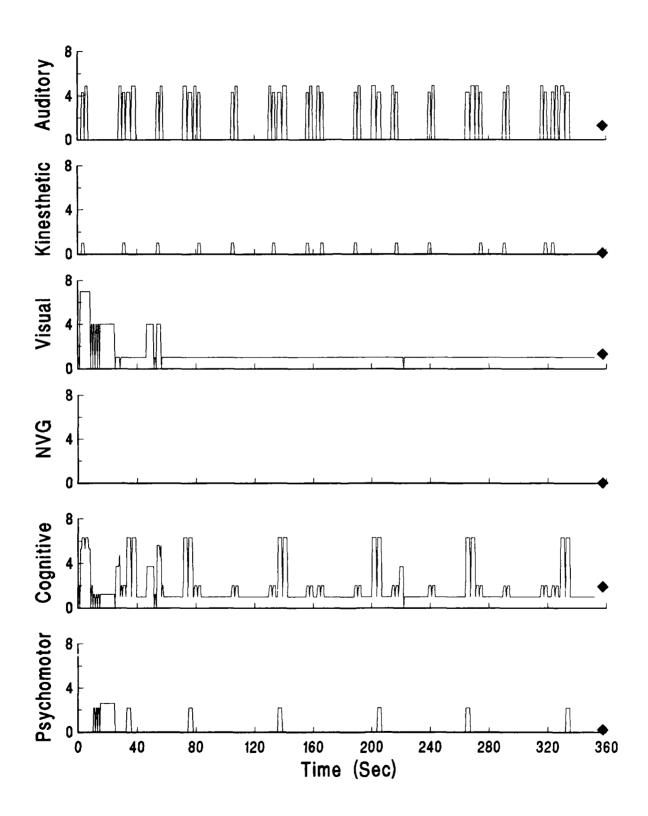
Segment 23: NOE Flight (Mission Change) Copilot - UH-60A



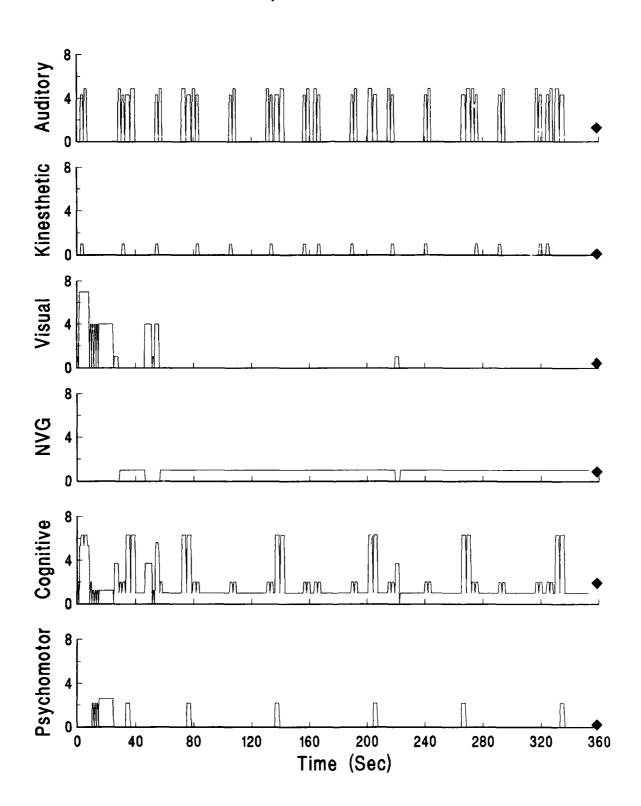
Segment 24: NOE Flight (Mission Change) [NVG]
Copilot - UH-60A



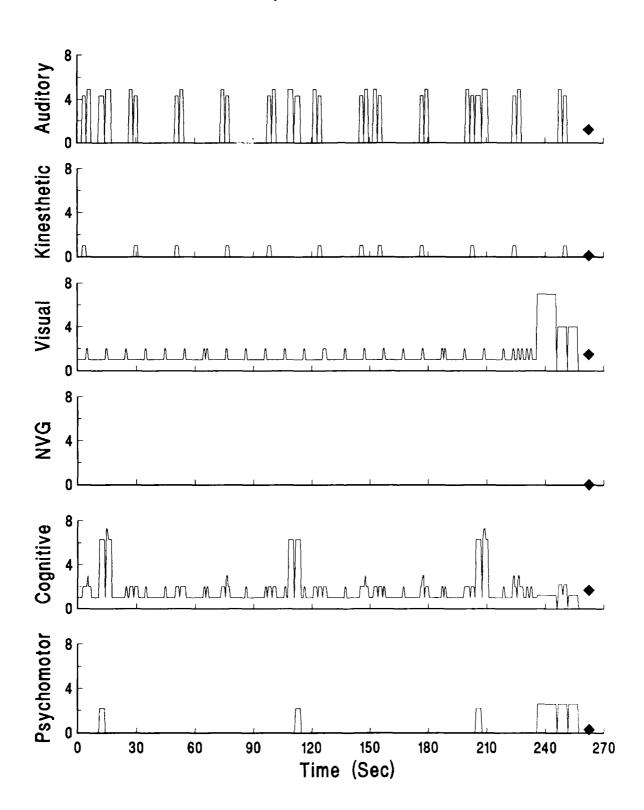
Segment 25: Approach (LZ)
Copilot - UH-60A



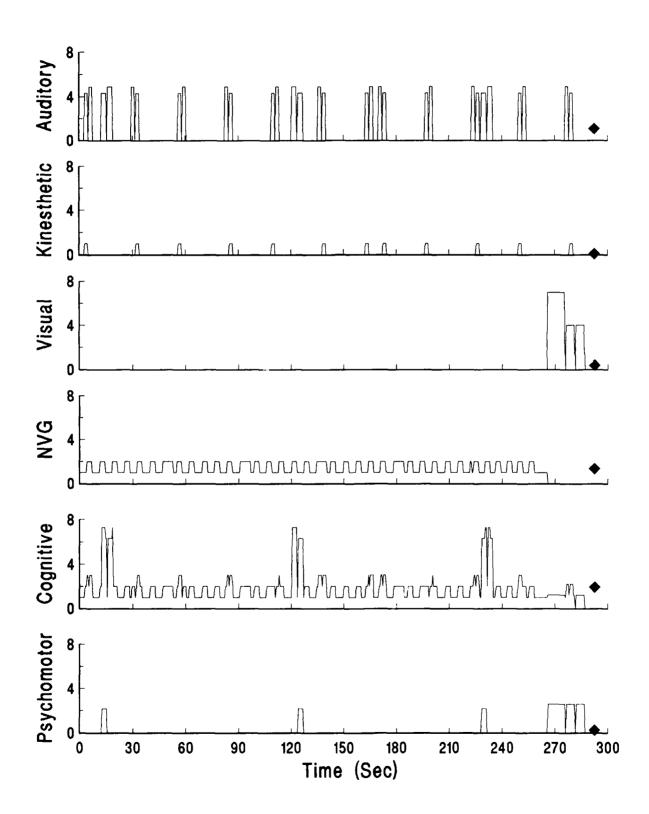
Segment 26: Approach (LZ) [NVG] Copilot - UH-60A



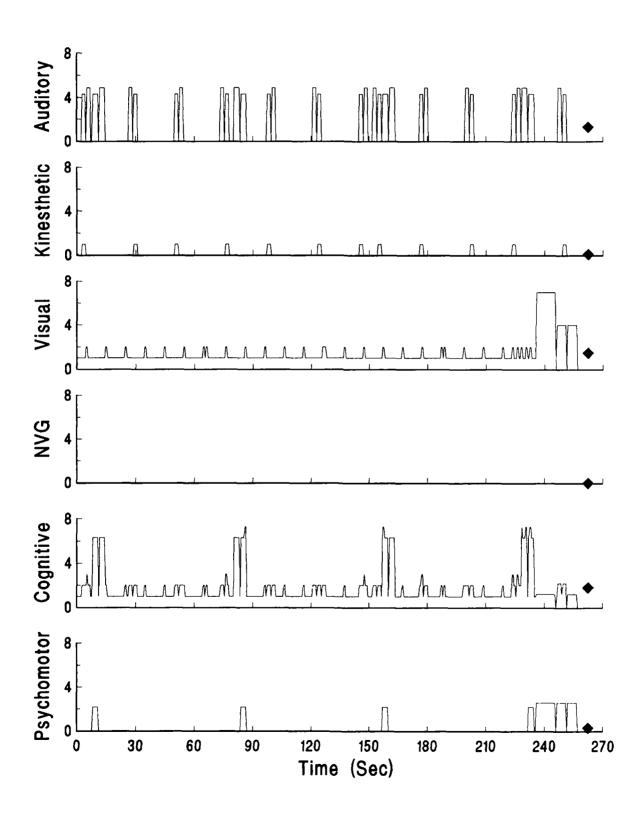
Segment 27: Landing (LZ, Internal Load)
Copilot - UH-60A



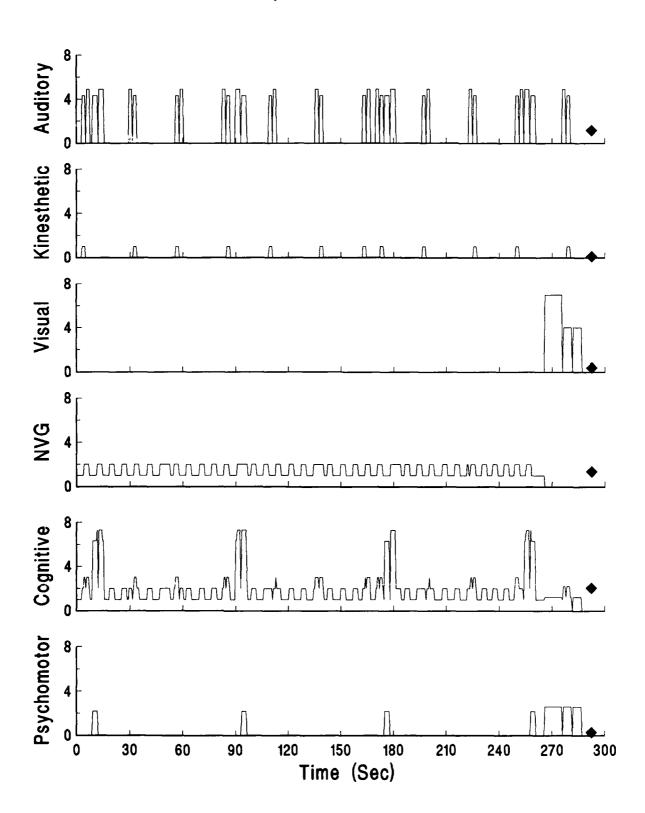
Segment 28: Landing (LZ, Internal Load) [NVG]
Copilot - UH-60A



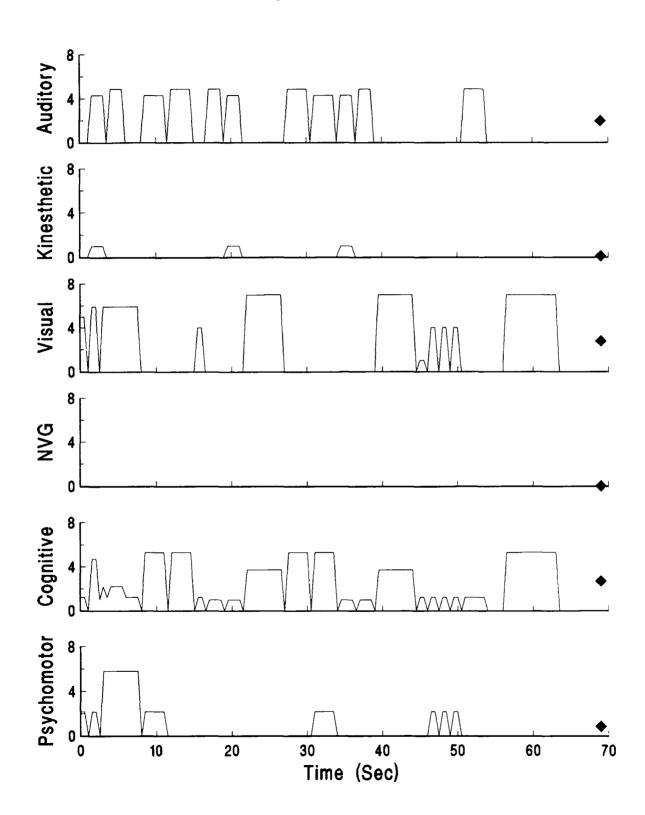
Segment 29: Landing (LZ, External Load)
Copilot - UH-60A



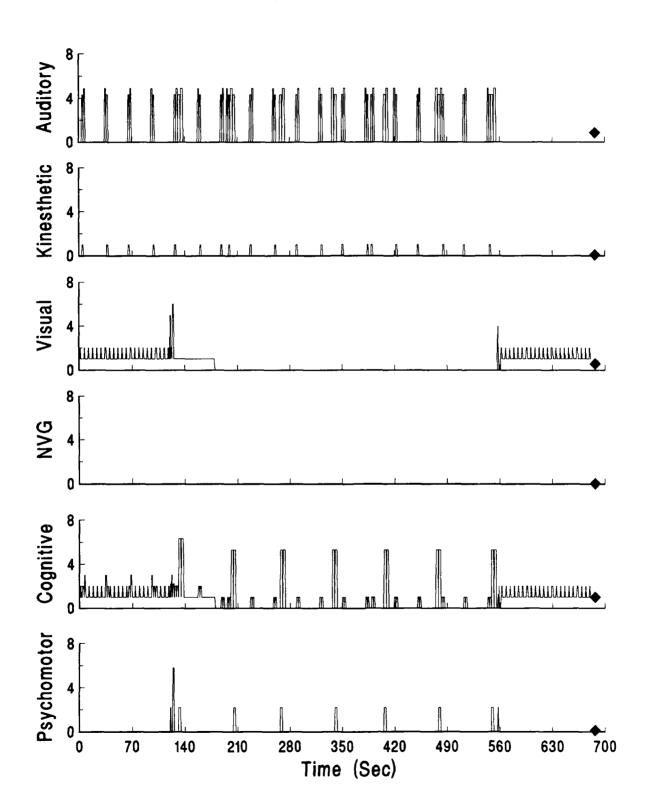
Segment 30: Landing (LZ, External Load) [NVG]
Copilot - UH-60A



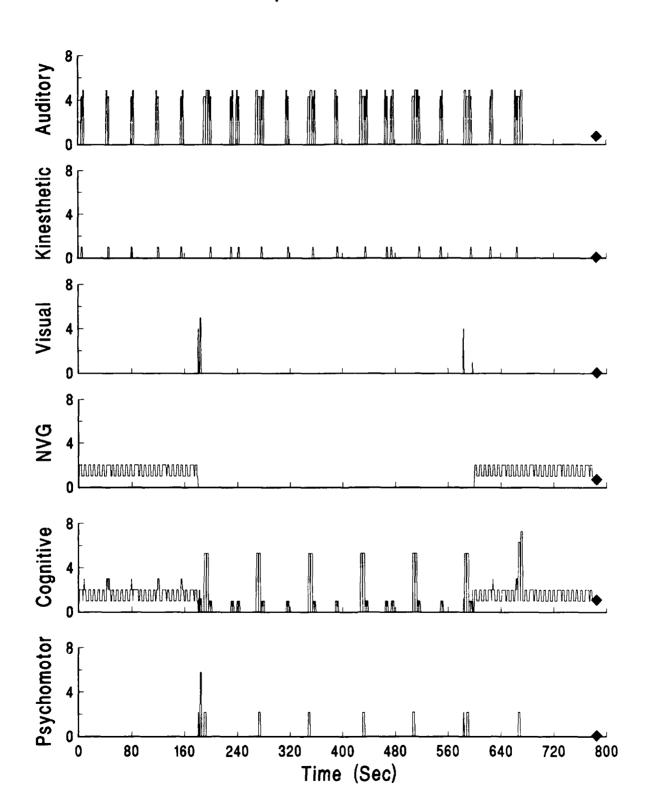
Segment 31: Before Takeoff (LZ) Copilot - UH-60A



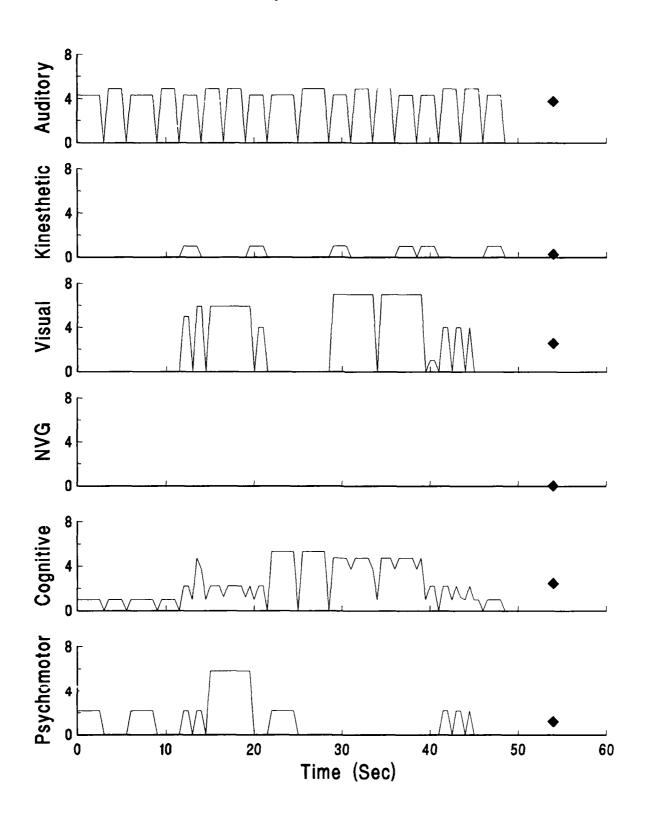
Segment 32: FARP Procedures
Copilot - UH-60A



Segment 33: FARP Procedures [NVG]
Copilot - UH-60A



Segment 34: Before Takeoff (FARP) Copilot - UH-60A



APPENDIX C

SUMMARY OF MH-60K MISSION PHASES AND SEGMENTS

The MH-60K mission scenario was divided into 5 unique mission phases. Subsequently, the 5 mission phases were divided into segments. This appendix lists the 5 phases and the 15 unique mission segments that were derived during the MH-60K mission analysis.

Phase 1: Departure (Base)

Segment 01: Configure Systems for Mission

02: Before Takeoff (Base Internal Load)

03: Takeoff [ANVIS]

Phase 2: Enroute (Base-Rendezvous)

Segment 04: Enroute Flight

05: Contour Flight (No Update) [ANVIS]

06: Contour Flight (Update) [ANVIS]

07: Rendezvous [ANVIS]

Phase 3: Enroute (Rendezvous-LZ)

Segment 08: NOE Flight [ANVIS]

09: NOE Flight [ANVIS/ASE]

10: Approach (LZ) [ANVIS]

11: Landing (LZ Internal Load) [ANVIS]

Phase 4: Enroute (LZ-Rendezvous)

Segment 12: Before Takeoff (LZ)

03: Takeoff [ANVIS]

13: NOE Flight (Route Change) [ANVIS]

07: Rendezvous [ANVIS]

Phase 5: Enroute (Rendezvous-Base)

Segment 06: Contour Flight (Update) [ANVIS]

14: Approach [ANVIS]

15: Landing [ANVIS]

APPENDIX D

ALPHABETICAL LIST OF MH-60K UNIQUE FUNCTIONS

Each mission segment listed in Appendix C was divided into functions during the MH-60K mission analysis. Seventy-one unique functions were identified. Subsequently, the functions were ordered in an alphabetical list and a number (1-71) was assigned corresponding to the ordinal position within the list. This appendix is an alphabetical list of the functions and the numerical identifiers for the functions.

NUMBER	FUNCTION
01	Adjust Approach Parameters [NVG]
02	Adjust Climb Parameters [NVG]
03	Adjust Flight Parameters [NVG]
04	Adjust Level of Flight Parameters [NVG]
05	Adjust Map Display (Copilot)
06	Adjust Map Display (Pilot)
07	Align Navigation Systems
80	Boresight FLIR
09	Check Approach Parameters
10	Check Avionics System
11	Check Climb Parameters
12	Check Flight Instruments (Auto)
13	Check Flight Parameters
14	Check Level of Flight Parameters
15	Check Map Display System (Copilot)
16	Check Map Display System (Pilot)
17	Configure Flight Director
18	Configure Navigation Radios
19	Depart Rendezvous [NVG]
20	Engage Level Flight (Auto)
21	Establish Approach [NVG]
22	Establish Climb [NVG]
23	Establish Hover [NVG]
24	Establish Level of Flight [NVG]
25	Land Aircraft [NVG]
26	Load Aircraft (Internal)
27	Load Mission Plan
28	Mission Change
29	Monitor Audio

NUMBER	FUNCTION
30	Monitor External Visual Field (Copilot) [NVG]
31	Monitor External Visual Field (Pilot) [NVG]
32	Monitor Flight Controls
33	Monitor FLIR Image (Copilot)
34	Monitor FLIR Image (Pilot)
35	Monitor RADAR Image (Copilot)
36	Monitor RADAR Image (Pilot)
37	Monitor Threat (Copilot)
38	Monitor Threat (Pilot)
39	Perform Aerial Refueling [NVG]
40	Perform After Landing Check
41	Perform Before Hover Check
42	Perform Before Landing Check
43	Perform Before Landing Check (LZ)
44	Perform Before Takeoff Check
45	Perform Before Takeoff Check (LZ)
46	Perform Before Taxi Check
47	Perform Cockpit Communication (Copilot) (Coordination)
48	Perform Cockpit Communication (Copilot) (Normal)
49	Perform Cockpit Communication (Pilot) (Coordination)
50	Perform Cockpit Communication (Pilot) (Normal)
51	Perform External Communication (ATHS)
52	Perform External Communication (Frequency Change)
53	Perform External Communication (Receive Coordination)
54	Perform External Communication (Transmit Code)
55	Perform Hover Check [NVG]
56	Perform Hover [NVG]

NUMBER	FUNCTION
57	Perform IFF Procedures
58	Perform Navigation [NVG]
59	Perform Navigation (RADAR)
60	Perform Rendezvous Check
61	Perform Rendezvous [NVG]
62	Perform Taxi [NVG]
63	Perform Taxiing Check
64	Program Transponder
65	Respond to Threat [NVG]
66	Set Up Communication Radios
67	Unload Aircraft (Internal)
68	Update Navigation (FLIR)
69	Update Navigation (LZ)
70	Update Navigation (Mission Change)
71	Update Navigation (NRP)

APPENDIX E

OUTLINE OF MH-60K MISSION SEGMENTS AND FUNCTIONS

A mission scenario was developed as the first step in the MH-60K mission/task/workload analysis. Subsequently, the MH-60K mission scenario was divided into 5 unique mission phases. The 5 mission phases subsequently were divided into segments and functions. This appendix is a list of all the segments and functions as they occur in each of the 5 mission phases throughout the entire mission scenario.

PHASE 1: DEPARTURE (BASE)

```
Segment 01: Configure Systems for Mission
 Function 27: Load Mission Plan
           07: Align Navigation Systems
          10: Check Avionics System
          16: Check Map Display System (Pilot)
          15: Check Map Display System (Copilot)
          17: Configure Flight Director
          18: Configure Navigation Radios
          66: Set up Communication Radios
          48: Perform Cockpit Communication (Copilot) (Normal)
          50: Perform Cockpit Communication (Pilot) (Normal)
          47: Perform Cockpit Communication (Copilot) (Coordination)
          49: Perform Cockpit Communication (Pilot) (Coordination)
          64: Program Transponder
          08: Boresight FLIR
          32: Monitor Flight Controls
          31: Monitor External Visual Field (Pilot) [NVG]
Segment 02: Before Takeoff (Base/Internal Load)
 Function 32: Monitor Flight Controls
          46: Perform Before Taxi Check
          48: Perform Cockpit Communication (Copilot) (Normal)
          50: Perform Cockpit Communication (Pilot) (Normal)
          47: Perform Cockpit Communication (Copilot) (Coordination)
          49: Perform Cockpit Communication (Pilot) (Coordination)
          62: Perform Taxi [NVG]
          63: Perform Taxiing Check
          41: Perform Before Hover Check
          56: Perform Hover [NVG]
          55: Perform Hover Check [NVG]
          25: Land Aircraft (NVG)
          26: Load Aircraft (Internal)
          44: Perform Before Takeoff Check
          53: Perform External Communication (Receive Coordination)
          31: Monitor External Visual Field (Pilot) [NVG]
Segment 03: Takeoff [ANVIS]
 Function 23: Establish Hover [NVG]
          31: Monitor External Visual Field (Pilot) [NVG]
          30: Monitor External Visual Field (Copilot) [NVG]
          56: Perform Hover [NVG]
          22: Establish Climb [NVG]
          02: Adjust Climb Parameters [NVG]
          11: Check Climb Parameters
          24: Establish Level of Flight [NVG]
          04: Adjust Level of Flight Parameters [NVG]
          14: Check Level of Flight Parameters
          47: Perform Cockpit Communication (Copilot) (Coordination)
          49: Perform Cockpit Communication (Pilot) (Coordination)
          38: Monitor Threat (Pilot)
          37: Monitor Threat (Copilot)
          48: Perform Cockpit Communication (Copilet) (Normal)
          50: Perform Cockpit Communication (Pilot) (Normal)
```

PHASE 2: ENROUTE (BASE-RENDEZVOUS)

```
Segment 04: Enroute Flight
 Function 20: Engage Level Flight (Auto)
          32: Monitor Flight Controls
          31: Monitor External Visual Field (Pilot) [NVG]
          05: Adjust Map Display (Copilot)
          06: Adjust Map Display (Pilot)
          12: Check Flight Instruments (Auto)
          58: Perform Navigation [NVG]
          59: Perform Navigation (RADAR)
          38: Monitor Threat (Pilot)
          37: Monitor Threat (Copilot)
          34: Monitor FLIR Image (Pilot)
          33: Monitor FLIR Image (Copilot)
          48: Perform Cockpit Communication (Copilot) (Normal)
          50: Perform Cockpit Communication (Pilot) (Normal)
          47: Perform Cockpit Communication (Copilot) (Coordination)
          49: Perform Cockpit Communication (Pilot) (Coordination)
          54: Perform External Communication (Transmit Code)
Segment 05: Contour Flight (No Update) [ANVIS]
 Function 03: Adjust Flight Parameters [NVG]
          13: Check Flight Parameters
          05: Adjust Map Display (Copilot)
          06: Adjust Map Display (Pilot)
          58: Perform Navigation [NVG]
          59: Perform Navigation (RADAR)
          38: Monitor Threat (Pilot)
          37: Monitor Threat (Copilot)
          34: Monitor FLIR Image (Pilot)
          33: Monitor FLIR Image (Copilot)
          48: Perform Cockpit Communication (Copilot) (Normal)
          50: Perform Cockpit Communication (Pilot) (Normal)
          47: Perform Cockpit Communication (Copilot) (Coordination)
          49: Perform Cockpit Communication (Pilot) (Coordination)
          54: Perform External Communication (Transmit Code)
          31: Monitor External Visual Field (Pilot) [NVG]
Segment 06: Contour Flight (Update) [ANVIS]
 Function 03: Adjust Flight Parameters [NVG]
          13: Check Flight Parameters
          05: Adjust Map Display (Copilot)
          58: Perform Navigation [NVG]
          38: Monitor Threat (Pilot)
          37: Monitor Threat (Copilot)
          36: Monitor RADAR Image (Pilot)
          34: Monitor FLIR Image (Pilot)
          68: Update Navigation (FLIR)
          71: Update Navigation (NRP)
          48: Perform Cockpit Communication (Copilot) (Normal)
          50: Perform Cockpit Communication (Pilot) (Normal)
          47: Perform Cockpit Communication (Copilot) (Coordination)
          49: Perform Cockpit Communication (Pilot) (Coordination)
          54: Perform External Communication (Transmit Code)
```

31: Monitor External Visual Field (Pilot) [NVG]

```
Segment 07: Rendezvous [ANVIS]
    Function 38: Monitor Threat (Pilot)
             37: Monitor Threat (Copilot)
             52: Perform External Communication (Frequency Change)
             60: Perform Rendezvous Check
             57: Perform IFF Procedures
             61: Perform Rendezvous [NVG]
             39: Perform Aerial Refueling [NVG]
             19: Depart Rendezvous [NVG]
             48: Perform Cockpit Communication (Copilot) (Normal)
             50: Perform Cockpit Communication (Pilot) (Normal)
             47: Perform Cockpit Communication (Copilot) (Coordination)
             49: Perform Cockpit Communication (Pilot) (Coordination)
             34: Monitor FLIR Image (Pilot)
             33: Monitor FLIR Image (Copilot)
             04: Adjust Level of Flight Parameters [NVG]
             13: Check Flight Parameters
             31: Monitor External Visual Field (Pilot) [NVG]
PHASE 3: ENROUTE (RENDEZVOUS-LZ)
   Segment 08: NOE Flight [ANVIS]
    Function 03: Adjust Flight Parameters [NVG]
             13: Check Flight Parameters
             05: Adjust Map Display (Copilot)
             58: Perform Navigation [NVG]
             59: Perform Navigation (RADAR)
             38: Monitor Threat (Pilot)
             37: Monitor Threat (Copilot)
             48: Perform Cockpit Communication (Copilot) (Normal)
             50: Perform Cockpit Communication (Pilot) (Normal)
             47: Perform Cockpit Communication (Copilot) (Coordination)
             49: Perform Cockpit Communication (Pilot) (Coordination)
             31: Monitor External Visual Field (Pilot) [NVG]
   Segment 09: NOE Flight [ANVIS/ASE]
    Function 03: Adjust Flight Parameters [NVG]
             13: Check Flight Parameters
             05: Adjust Map Display (Copilot)
             58: Perform Navigation [NVG]
             38: Monitor Threat (Pilot)
             37: Monitor Threat (Copilot)
             35: Monitor RADAR Image (Copilot)
             65: Respond to Threat [NVG]
             68: Update Navigation (FLIR)
             51: Perform External Communication (ATHS)
             48: Perform Cockpit Communication (Copilot) (Normal)
             50: Perform Cockpit Communication (Pilot) (Normal)
             47: Perform Cockpit Communication (Copilot) (Coordination)
             49: Perform Cockpit Communication (Pilot) (Coordination)
             31: Monitor External Visual Field (Pilot) [NVG]
```

Segment 10: Approach (LZ) [ANVIS] Function 43: Perform Before Landing Check (LZ) 21: Establish Approach [NVG] 01: Adjust Approach Parameters [NVG] 09: Check Approach Parameters 48: Perform Cockpit Communication (Copilot) (Normal) 50: Perform Cockpit Communication (Pilot) (Normal) 47: Perform Cockpit Communication (Copilot) (Coordination) 49: Perform Cockpit Communication (Pilot) (Coordination) 38: Monitor Threat (Pilot) 37: Monitor Threat (Copilot) 31: Monitor External Visual Field (Pilot) [NVG] 30: Monitor External Visual Field (Copilot) [NVG] Segment 11: Landing (LZ Internal Load) [ANVIS] Function 23: Establish Hover [NVG] 56: Perform Hover [NVG] 25: Land Aircraft [NVG] 67: Unload Aircraft (Internal) 48: Perform Cockpit Communication (Copilot) (Normal) 50: Perform Cockpit Communication (Pilot) (Normal) 47: Perform Cockpit Communication (Copilot) (Coordination) 49: Perform Cockpit Communication (Pilot) (Coordination) 31: Monitor External Visual Field (Pilot) [NVG] 30: Monitor External Visual Field (Copilot) [NVG] 32: Monitor Flight Controls PHASE 4: ENROUTE (LZ-RENDEZVOUS) Segment 12: Before Takeoff (LZ) 48: Perform Cockpit Communication (Copilot) (Normal) 50: Perform Cockpit Communication (Pilot) (Normal) 47: Perform Cockpit Communication (Copilot) (Coordination) 49: Perform Cockpit Communication (Pilot) (Coordination) 45: Perform Before Takeoff Check (LZ) 69: Update Navigation (LZ) 31: Monitor External Visual Field (Pilot) [NVG] 32: Monitor Flight Controls Segment 03: Takeoff [ANVIS] Function 23: Establish Hover [NVG] 31: Monitor External Visual Field (Pilot) [NVG] 30: Monitor External Visual Field (Copilot) [NVG] 56: Perform Hover (NVG) 22: Establish Climb [NVG] 02: Adjust Climb Parameters [NVG] 11: Check Climb Parameters 24: Establish Level of Flight [NVG] 04: Adjust Level of Flight Parameters [NVG] 14: Check Level of Flight Parameters 47: Perform Cockpit Communication (Copilot) (Coordination) 49: Perform Cockpit Communication (Pilot) (Coordination) 38: Monitor Threat (Pilot) 37: Monitor Threat (Copilot) 48: Perform Cockpit Communication (Copilot) (Normal) 50: Perform Cockpit Communication (Pilot) (Normal)

```
Segment 13: NOE Flight (Route Change) [ANVIS]
 Function 03: Adjust Flight Parameters [NVG]
          13: Check Flight Parameters
          05: Adjust Map Display (Copilot)
          58: Perform Navigation [NVG]
          38: Monitor Threat (Pilot)
          37: Monitor Threat (Copilot)
          28: Mission Change
          70: Update Navigation (Mission Change)
          48: Perform Cockpit Communication (Copilot) (Normal)
          50: Perform Cockpit Communication (Pilot) (Normal)
          47: Perform Cockpit Communication (Copilot) (Coordination)
          49: Perform Cockpit Communication (Pilot) (Coordination)
          31: Monitor External Visual Field (Pilot) [NVG]
Segment 07: Rendezvous [ANVIS]
 Function 38: Monitor Threat (Pilot)
          37: Monitor Threat (Copilot)
          52: Perform External Communication (Frequency Change)
          60: Perform Rendezvous Check
          57: Perform IFF Procedures
          61: Perform Rendezvous [NVG]
          39: Perform Aerial Refueling [NVG]
          19: Depart Rendezvous [NVG]
          48: Perform Cockpit Communication (Copilot) (Normal)
          50: Perform Cockpit Communication (Pilot) (Normal)
          47: Perform Cockpit Communication (Copilot) (Coordination)
          49: Perform Cockpit Communication (Pilot) (Coordination)
          34: Monitor FLIR Image (Pilot)
          33: Monitor FLIR Image (Copilot)
          04: Adjust Level of Flight Parameters [NVG]
          13: Check Flight Parameters
          31: Monitor External Visual Field (Pilot) [NVG]
```

ENROUTE (RENDEZVOUS-BASE)

```
Segment 06: Contour Flight (Update) [ANVIS]
 Function 03: Adjust Flight Parameters [NVG]
          13: Check Flight Parameters
          05: Adjust Map Display (Copilot)
          58: Perform Navigation [NVG]
          38: Monitor Threat (Pilot)
          37: Monitor Threat (Copilot)
          36: Monitor RADAR Image (Pilot)
          34: Monitor FLIR Image (Pilot)
          68: Update Navigation (FLIR)
          71: Update Navigation (NRP)
          48: Perform Cockpit Communication (Copilot) (Normal)
          50: Perform Cockpit Communication (Pilot) (Normal)
          47: Perform Cockpit Communication (Copilot) (Coordination)
          49: Perform Cockpit Communication (Pilot) (Coordination)
          54: Perform External Communication (Transmit Code)
          31: Monitor External Visual Field (Pilot) [NVG]
```

Segment 14: Approach [ANVIS] Function 52: Perform External Communication (Frequency Change) 42: Perform Before Landing Check 21: Establish Approach [NVG] 01: Adjust Approach Parameters [NVG] 09: Check Approach Parameters 30: Monitor External Visual Field (Copilot) [NVG] 33: Monitor FLIR Image (Copilot) 48: Perform Cockpit Communication (Copilot) (Normal) 50: Perform Cockpit Communication (Pilot) (Normal) 47: Perform Cockpit Communication (Copilot) (Coordination) 49: Perform Cockpit Communication (Pilot) (Coordination) 54: Perform External Communication (Transmit Code) 38: Monitor Threat (Pilot) 37: Monitor Threat (Copilot) 31: Monitor External Visual Field (Pilot) [NVG] Segment 15: Landing [ANVIS] Function 23: Establish Hover [NVG] 56: Perform Hover [NVG] 30: Monitor External Visual Field (Copilot) [NVG] 25: Land Aircraft [NVG] 40: Perform After Landing Check

53: Perform External Communication (Receive Coordination)48: Perform Cockpit Communication (Copilot) (Normal)50: Perform Cockpit Communication (Pilot) (Normal)

47: Perform Cockpit Communication (Copilot) (Coordination)
49: Perform Cockpit Communication (Pilot) (Coordination)

APPENDIX F

ALPHABETICAL LIST OF MH-60K UNIQUE TASKS

During the MH-60K mission/task/workload analysis, each of the 71 functions was divided into tasks. A task defines an observable crew activity that is essential to the successful performance of the selected function. For the 71 functions, a total of 230 unique tasks were identified. This appendix is an alphabetical list of the 230 tasks with assigned task numbers.

TASK #	VERB OBJECT						
001	Press	ACC Key					
002	Receive	Acknowledgment					
003	Transmit	Acknowledgment					
004	Press	ADF Key					
005	Press	ADS SYM Key					
006	Press	AHRS NAV Key					
007	Press	AHRS NORM Key					
800	Check	Airspeed					
009	Enter	Airspeed					
010	Check	Airspeed (Inflight)					
011	Control	Airspeed [NVG]					
012	Change	Airspeed Quickly [NVG]					
013	Check	Altitude					
014	Check	Altitude (Inflight)					
015	Adjust	Altitude [NVG]					
016	Control	Altitude [NVG]					
017	Change	Altitude Sharply [NVG]					
018	Press	A/S SEL Key					
019	Press	ASE Key					
020	Press	ATHS MENU Key					
021	Check	Attitude					
022	Adjust	Attitude [NVG]					
023	Control	Attitude [NVG]					
024	Monitor	Audio					
025	Press	BALT SEL Key					
026	Enter	BARO Altitude					
027	Press	BCN OPER Key					
028	Press	BCN STBY Key					
029	Check	Bit Light					
030	Press	BORE Key					
031	Check	Brakes (Copilot)					
032	Check	Brakes (Pilot)					
033	Press	CALC Key					
034	Press	CALT Key					
035	Check	CAUTION/WARNING/Advisory Display					
036	Enter	CDU Data					
037	Press	CENTER Key					
038	Press	CHAN Key					
039	Press	CHECK LISTS Key					
040	Press	COMM Key					
041	Receive	Communication (Copilot)					
042	Receive	Communication (Copilot) (Normal)					
043	Transmit	Communication (Copilot)					
044	Transmit	Communication (Copilot) (Normal)					
045	Receive	Communication (Crewchief)					

TASK #	VERB	OBJECT
046	Transmit	Communication (Crewchief)
047	Receive	Communication (Pilot)
048	Receive	Communication (Pilot) (Normal)
049	Transmit	Communication (Pilot)
050	Transmit	Communication (Pilot) (Normal)
051	Check	Course Display
052	Check	Crew
053	Press	CRS Key
054	Press	CTR Key
055	Press	DCLT Key
056	Press	DECENTER Key
057	Check	Direction Display
058	Press	DISP MSGS Key
059 060	Press Control	DISPLAY LEG Key Drift [NVG]
061	Insert	DTM Cartridge
062	Check	Engine Display
063	Check	Engine Display Engine Indications (Hover)
064	Press	Enter Key
065	Check	EQP STAT Key
066	Press	EQP STAT Key
067	Check	External Scene [NVG]
068	Press	F/D Key
069	Monitor	Flight Controls
070	Check	Flight Controls (Hover) [NVG]
071	Verify	Flight Path (FLIR)
072	Verify	Flight Path [NVG]
073	Verify	Flight Path (RADAR)
074	Check	Flight Symbology (Hover)
075	Press	FLIR CTRL Key
076	Check	FLIR Image
077	Press	FLIR Key
078	Press	FLIR ON Key
079	Press	FLY OVER STR Key
080	Press	FLY OVER UPD Key
081	Control	Forward Motion (Taxi) [NVG]
082	Press	FOV Key
083	Press	FOV NAR Key
084	Set	FOV Scale Switch
085	Press	FPLN Key
086	Press	FPLN LOAD Key
087	Press	FPLN ON Key
088	Press	FPV Key
089	Check	Fuel Indicator
090	Check	Fuel Summary

TASK #	VERB	OBJECT
091	Press	FUEL/POWER Key
092	Press	GET LIST Key
093	Press	GM/TF Key
094	Press	GPS DOP Key
095	Press	GPS INIT Key
096	Perform	Hard Turns [NVG]
097	Press	HDG SEL Key
098	Check	Heading
099	Enter	Heading
100	Check	Heading (Inflight)
101	Adjust	Heading [NVG]
102	Control	Heading [NVG]
103	Control	Heading (Taxi) [NVG]
104	Press	HF COMM Key
105	Press	HF LIST Key
106	Perform	HIT Check
107	Press	HSD Key
108	Press	HVR SYM Key
109	Check	IFF Code
110	Press	IFF Key
111	Press	IFF MODE Key
112	Press	IFF NORM/STBY Key
113	Press	IFF STBY Key
114	Press	INIT Key
115	Press	INS NAV Key
116 117	Press	INST Key Landmark (FLIR)
118	Identify Identify	
119	Press	LEG ADD Key
120	Enter	Leg Data
121	Press	LEG MOD Key
122	Press	LEGS Key
123	Set	Lights
124	Check	Load Secure
125	Verify	Load Secure
126	Monitor	Loading
127	Press	LOOK AHD Key
128	Scan	Map Display
129	Check	Map Display Scale
130	Interpret	Map Features
131	Press	MAP Key
132	Check	MASTER Key
133	Press	MASTER Key
134	Enter	Message
135	Read	Message
		~

TASK #	VERB	OBJECT				
136	Receive	Message				
137						
138	Note	Message Alert				
139	Receive	Message Alert				
140	Transmit	Message (Brief)				
141	Verify	Mission Loaded				
142	Press	MISSN LOAD Key				
143	Press	MODE 1 Key				
144	Press	MODE 2 Key				
145	Press	MODE 3A Key				
146	Press	MODE C Key				
147	Pull	Mode Trigger				
148	Release	Mode Trigger				
149	Press	NAV AIDS Key				
150	Press	NAV INIT Key				
151	Press	NAV Key				
152	Enter	New NRP Number				
153	Press	NEXT Key				
154	Press	NORM Key				
155	Verify	NRP				
156	Enter	NRP Data				
157	Enter	NRP Number				
158	Check	Obstacle Clearance [NVG] Obstacle Clearance [NVG]				
159 160	Maintain	Obstacle Clearance [NVG] OP RDY Key				
161	Press Check	Park Brake				
162	Release	Park Brake				
163	Check	Park Brake Light				
164	Press	POL Key				
165	Perform	Power Check (Hover)				
166	Adjust	Power [NVG]				
167	Verify	Probe Hookup				
168	Verify	Probe Unhooked				
169	Press	PT Key				
170	Check	Radar Image				
171	Press	RADAR Key				
172	Check	Radios				
173	Check	Rate of Climb Indicator (Inflight)				
174	Control	Rate of Climb [NVG]				
175	Control	Rate of Descent [NVG]				
176	Press	RDR Key				
177	Set	Refuel Panel				
178	Verify	Refueling Ceased				
179	Press	RNG DOWN Key				
180	Press	RNG Key				
		-				

TASK #	VERB	OBJECT
181	Press	RNG UP Key
182	Check	Rotor RPM
183	Press	RTN Key
184	Press	SEC Key
185	Press	SEQ CHAN Key
186	Press	SEQ Key
187	Press	SEQ MSG Key
188	Press	SLEW Key
189	Press	SNSR UPD Key
190	Press	SQL Key
191		Standby
192	Check	Steering
193	Press	STR Key
194	Press	STR NRP Key
195	Press	SYST Key
196	Press	TA Key
197	Check	TACAN Channel
198	Check	Tailwheel Advisory Light
199	Set	TAILWHEEL Switch
200	Locate	Tanker [NVG]
201	Press	TCN A/AR Key
202	Press	TCN BRG Key
203	Press	TF Key
204	Detect	Threat
205	Enter	Threat Information
206	Perform	Touchdown [NVG]
207	Check	Trim Ball (Inflight)
208	Adjust	Trim [NVG]
209	Press	TUNE HF Key
210	Press	TUNE UHF 1 Key
211	Press	TUNE VHF 1 Key
212	Press	TUNE VHF 2 Key
213 214	Press	UHF 1 Key UHF COMM Key
	Press	UHF LIST Key
215 216	Press Monitor	Unloading
217	Verify	Unloading Complete
217	Press	UPD Key
219	Slew	Update Cursor
220	Check	Vertical Situation Display
221	Press	VHF 1 Key
222	Press	VHF 2 Key
223	Press	VHF LIST Key
224	Press	VOR TAC Key
225	Press	VSD Key
223	LTC22	AOD WEA

TASK #	VERB	OBJECT
226 227 228 229 230	Press Check Press Press Check	WCA Key WCA Light WYPT Key XMIT MSG Key % TRQ Indication (Inflight)

APPENDIX G

MH-60K FUNCTION ANALYSIS WORKSHEETS

During the MH-60K mission/task/workload analysis, descriptive information was compiled for each of the 230 unique tasks. The descriptive information for each task was compiled on a Function Analysis Worksheet using a standardized format. This appendix contains the Function Analysis Worksheet for each of the 71 functions. The Function Analysis Worksheets provide the following information:

- function name,
- function number,
- total time of function,
- · task identifiers with verb and object,
- crewmember(s) performing each task,
- · task numbers,
- subsystems associated with each task,
- verbal descriptors of sensory components and workload ratings,
- verbal descriptors of cognitive components and workload ratings,
- verbal descriptors of psychomotor components and workload ratings,
- descriptions of switches if used to perform the tasks, and
- task durations.

340 Seconds*

FUNCTION 01 Adjust Approach Parameters [NVG]

	TASKS			WORKLOAD	OAD COMPONENTS	6		DURATION (SECONDS)
VERE	овлест	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS
Control	Attitude [NVG]	P023	Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-
Control	Rate of Descent [NVG]	P175	Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-
Control	Airspeed [NVG]	P011	Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-
Солто	Heading [NVG]	P102	Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-
Confroi	Drift [NVG]	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P060 Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

90 Seconds*

meters [NVG]
Adjust Climb Para
02
FUNCTION

DURATION (SECONDS)	DISCRETE/ CONTINUOUS				
DUR	DISC	-	-	-	_
	SWITCH DESCRIPTION				
17.8	PSYCHOMOTOR	Control Pressure P-2.6	Control Pressure P-2.6	Control Pressure P-2.6	P-2.6
LOAD COMPONENTS	COGNITIVE	Make Conditioned Association (Adjustment Needed) C-1	Make Conditioned Association (Adjustment Needed) C-1	Make Conditioned Association (Adjustment Needed) C-1	Make Conditioned Association (Adjustment Needed) C-1
WORKLOA	SENSORY	Feel Control Movements K-7	Feel Control Movements K-7	Feel Control Movements K-7	K-7
	SUBSYSTEM(S)	P023 Flight Control (FC)	P174 Flight Control (FC)	P011 Flight Control (FC)	P102 Flight Control (FC)
	TASK #	P023	P174	P011	P102
TASKS	овлест	Attitude [NVG]	Rate of Climb [NVG]	Airspeed [NVG]	Heading [NVG]
	VERB	Control	Control	Control	Control

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

Continuous*

FUNCTION 03 Adjust Flight Parameters [NVG]

DURATION (SECONDS)	DISCRETE/ CONTINUOUS					
DUR.	DISC	-	-	-	-	-
	SWITCH DESCRIPTION					
	PSYCHOMOTOR	Control Pressure P-2.6				
DAD COMPONENTS	COGNITIVE	Make Conditioned Association (Adjustment Needed) C-1				
WORKLOAD	SENSORY	Feel Control Movements K-7				
	SUBSYSTEM(S)	P023 Flight Control (FC)	P015 Flight Control (FC)	P011 Flight Control (FC)	P101 Flight Control (FC)	P208 Flight Control (FC)
	TASK #	P023	P015	P011	P101	P208
TASKS	OBJECT	Attitude [NVG]	Altitude [NVG]	Airspead [NVG]	Heading [NVG]	Trim [NVG]
	VERB	Control	Adjust	Control	Adjust	Adjust

*The total time for the function will vary depending on the length of the segment.

FUNCTION	FUNCTION 04 Adjust Level of Flight Parameters [NVG]	Parame	ters [NVG]			TOTAL T	TOTAL TIME (Approximate)	190 Seconds*
•	TASKS			WORKI	WORKLOAD COMPONENTS	1.8		DURATION (SECONDS)
VERB	OBJECT	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS
Control	Attitude [NVG]	P023	P023 Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needec) C-1	Control Pressure P-2.6		-
Control	Altitude [NVG]	P016	P016 Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-
Control	Airspee J [NVG]	P011	P011 Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-
Control	Heading [NVG]	P102	P102 Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the incividual tasks.

1 Second*

:	Confot)
· · · ·	st Map Display (
:	OS Adju
	2 2 2 2 3 3

	TASKS			WORKLOAD	SAD COMPONENTS	Ø		DURATION (SECONDS)	TION NOS)
VERB	OBJECT	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	ETE/ IUOUS
Check	Map Display Scale	C129	C129 Maps/Multifunction Vipiplay (NM/MFD)	Visually Discriminate Sensor Verify Correct Image Scale Image C-1.2	Verify Correct Image Scale C-1.2			rc.	
Press	RNG UP Key	C181	C181 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	٠,	
Press	RNG DOWN Key	C179	C179 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	ις	
889 G-6	DECENTER Key	C056	C056 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Soffkey P-2.2	Softkey	φ	
Press	CENTER Key	C037	C037 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ις	
-									-
0.77									

*Since the function is performed randomly and only one task is performed each time the function is selected, the total time is less than the sum of the individual tasks.

Adjust Map Display (Pilot)

FUNCTION 06

1 Second*

	TASKS			WORKLOAD	OAD COMPONENTS	S		DURATION (SECONDS)	NO DS)
VERB	ОВЈЕСТ	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE	TE, OUS
Check	Map Display Scale	P129	Maps/Multifunction Display (NMMFD)	Visually Discriminate Sensor Verify Correct Image Scale Image C-1.2	Verify Correct Image Scale C-1.2			ιν̈́	
Press	RNG UP Key	P181	P181 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιύ	
Press	RNG DOWN Key	P179	P179 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	رن من	
ssaud G-7	DECENTER Key	P056	P056 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Soffkey P-2.2	Softkey	ιύ	
Press	CENTER Key	P037	P037 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	ιν̈́	
······									
									¥

*Since the function is performed randomly and only one task is performed each time the function is selected, the total time is less than the sum of the individual tasks.

MH-60K FUNCTION ANALY:3IS WORKSHEET

TOTAL TIME (Approximate) 33.5 Seconds

Navigation Systems
07 Aligi
FUNCTION 0

	TASKS			WORKLO	LOAD COMPONEN	TS		DURATION	N S
VERB	OBJECT	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	(SECONDS) DISCRETE/ CONTINUOUS	TE/ JOUS
Press	SYST Key (2)	C195	Multifunction Display (MFD)	Visually Locate Key V-3.7	Veniy Correct Status C-1.2	Press Softkey P-2.2	Softkey	S.	
Press	NAV Key (2)	C151	Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	'n	
Press	NAV INIT Key (2)	C150	C150 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ĸ	
Enter	CDU Data	0036	C036 Control Display Unit (CDU)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (LAT/LONG C-5.3	Press Softkey P-2.2	Softkey	50	
Press	NORM Key (2)	C154	C154 Multifunction Display (MFD)	Visually Locate Key V-3.7	Venity Correct Status G-1.2	Press Softkey P-2.2	Softkey	rů.	
Press	INIT Key (2)	C114	C114 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιĊ	
Press	INS NAV Key (2)	C115	C115 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	φ	
press	GPS INIT Key (2)	C095	C095 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	ις	
}									

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 07 Align Navigation Systems [Continued]

WORKLOAD CO
SENSOF, Y
C007 Multifunction Display Visually Locate Key Verify Correct Status (MFD) V-3.7 C-1.2
C006 Multifunction Display Visually Locate Key Verify Correct Status (MFD) V-3.7 C-1.2
C114 Multifunction Display Visually Locate Key Verify Correct Status (MFD) C-1.2
Multifunction Display Visually Locate Key Verify Correct Status (MFD) V-3.7 C-1.2
C094 Multifunction Display Visually Locate Key Verify Correct Status (MFD) V-3.7 C-1.2
C107 Multifunction Display Visually Locate Key Verify Correct Status (MFD) V-3.7 C-1.2

10 9 Seconds

TOTAL TIME (Approximate)

FUNCTION 08 Boresight FLIR

DURATION (SECONDS)	SWITCH DISCRETE/ DESCRIPTION CONTINUOUS	ro.	ιņ	ν _.	ĸ.	ιν	ις.	ĸ,	ν.	νο _.
	S) DES(Softkey	Softkey	Softkey	Softkey	Softkey	Softkey	Softkey	Softkey	Softkey
ENIS	PSYCHOMOTOR	Press Soffkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Soffkey P-2.2	Press Softkey P-2.2	Press Soffkey P-2.2	Press Soffkey P-2.2	Press Softkey P-2.2	Press Softkey
OAD COMPON	COGNITIVE	Verify Correct Status C-1.2	Verify Correct Status (ON) C-1.2	Verify Correct Status C-1.2	Verify Correct Status (ON) C-1.2	Verify Correct Status (ON) C-1.2	Verify Correct Status (NAR) C-1.2	Verify Correct Status C-1.2	Verify Correct Status (ON) C-1.2	Verify Correct Status
WORKL	SENSORY	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key					
	SUBSYSTEM(S)	C075 Multifunction Display (MFD)	C078 Multifunction Display (MFD)	C153 Multifunction Display (MFD)	C030 Multifunction Display (MFD)	C033 Multifunction Display (MFD)	C083 Multifunction Display (MFD)	C153 Multifunction Display (MFD)	C005 Multifunction Display (MFD)	Multifunction Display
	TASK #	C075	C078	C153	0030	C033	C083	C153	5002	C183
TASKS	OBJECT	FLIR CTRL Key (2)	FLIR ON Key (2)	NEXT Key (2)	BORE Key (2)	CALC Key (2)	FOV NAR Key (2)	NEXT Key (2)	ADS SYM Key (2)	RTN Key (2)
	VERB	Press	Check	Press	Press	Press	Press	Press	Press	Press

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MH-60K FUNCTION ANALYSIS WORKSHEET	
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*S ice the function is performed randomly and only one task is performed each time the function is selected, the total time is less than the sum of the individual tasks.

208 Seconds

TOTAL TIME (Approximate)

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 10 Check Avionics System

NOIL	ETE/ IUOUS								
DURATION	(SECONDS) DISCRETE/ CONTINUOUS	ις	ιν̈́	rύ	200	ю	ιν		
	SWITCH								
1.8	PSYCHOMOTOR	Press Softkey P-2.2	Press Softkey P.2.2	Press Softkey P-2.2			Press Softkey P-2.2		
LOAD COMPONEN	COGNITIVE	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2		Verify Correct Status C-1.2	Verity Correct Status C-1.2		
WORKLO	SENSORY	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V 3.7		Visually Check Stat Matrix V-4.0	Visually Locate Key V-3.7		
	SUBSYSTEM(S)	C226 Multifunction Display (MFD)	C066 Multifunction Display (MFD)	C160 Multifunction Display (MFD)		C065 Multifunction Display (MFD)	C183 Multifunction Display (MFD)		
	TASK *	C226	9900	C160	B191	C065	C183		
TASKS	OBJECT	WCA Key (2)	EQP STAT Key (2)	OP RDY Key (2)	Standby	EQP STAT Key (2)	RTN Key (2)		
	VERB	Press	Press	Press		Check	Press	 	

TOTAL TIME (Approximate)

	TASKS			WORKLOAD	LOAD COMPONENTS	118		DURATION (SECONDS)
VERB	овлест	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS
Check	Rate of Climb Indicator (Inflight)	P173	P173 ANVIS Symbology (ANV)	Visually Check Symbolic Indications V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7			ιĊ
Check	Airspeed (Inflight)	P010	P010 ANVIS Symbology (ANV)	Visually Check Symbolic Indications V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7			rο̈́
Check	Heading (Inflight)	P 100	P100 ANVIS Symbology (ANV)	Visually Check Symbolic Indications V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7			ις

*Since the function is performed randomly and only one task is performed each time the function is selected, the total time is less than the sum of the individual tasks.

TOTAL TIME (Approximate)

MH-60K FUNCTION ANALYSIS WORKSHEET

Check Flight instruments (Auto)

L										
		TASKS			WORKLOAD	LOAD COMPONENTS	17.8		DURATION (SECONDS)	NOIT (NDS)
<u> </u>	VERB	OBJECT	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	ETE/ UOUS
<u></u> 5	Check	Altitude	P013	P013 ANVIS Symbology (ANV)	Visually Check Symbolic Indications	Interpret Readout and Verify Correct Status C-3.7			rō.	
5	Check	Airspeed	P008	P008 ANVIS Symbology (ANV)	Visually Check Symbolic Indications V-4	Interpret Readout and Verify Correct Status C-3.7			rò.	
_ 5	Check	Heading	P098	P098 ANVIS Symbology (ANV)	Read Heading Indicator V-5.9	Verity Correct Heading C-1.2			υ _.	-
5 G-14	Check	Attitude	P021	P021 ANVIS Symbology (ANV)	Visually Check Symbolic Indications V-4	Interpret Readout and Verify Correct Status C-3.7			ιν	
										
	- · 									
	· · · 									-

*Since the function is performed randomly and only one task is performed each time the function is selected, the total time is less than the sum of the individual tasks.

TOTAL TIME (Approximate)

FUNCTION 13 Check Flight Parameters

; ;	TASKS			WORK	OAD COMPONENTS	⊗ ⊢ 7		DURATION (SECONDS)
VERB	ОВЈЕСТ	TASK *	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS
Check	Altitude (Inflight)	P014	ANVIS Symbology (ANV)	Visually Check Symbolic Indications V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7			ι.
Check	Airspeed (Inflight)	P010	P010 ANVIS Symbology (ANV)	Visually Check Symbolic Indications V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7			ις.
Check	% TRQ Indication (Inflight)	P230	Engine/ANVIS Symbology (EN/AVN)	Visually Check Symbolic Indications V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7			ω
C. 15	Heading (Inflight)	P100	P100 ANVIS Symbology (ANV)	Visually Check Symbolic Indications V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7			ις.
Check	Trim Ball (Inflight)	P207	ANVIS Symbology (ANV)	Visually Check Symbolic Indications V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7			ıo _.

*Since the function is performed randomly and only one task is performed each time the function is selected, the total time is less than the sum of the individual tasks.

TOTAL TIME (Approximate)

MH-60K FUNCTION ANALYSIS WORKSHEET

Check Level of Flight Parameters

TION NDS)	RETE/ IUOUS				
DURATION (SECONDS)	DISCRETE/ CONTINUOUS	5.	ιά	κi	ις
	SWITCH DESCRIPTION				
18	PSYCHOMOTOR				
LOAD COMPONENTS	COGNITIVE	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7
WORKLOAD	SENSORY	Visually Check Symbolic Indications V-4	Visually Check Symbolic Indications V-4	Visually Check Symbolic Indications	Visually Check Symbolic Indications V-4
	SUBSYSTEM(S)	P230 Engine/ANVIS Symbology (EN/AVN)	P014 ANVIS Symbology (ANV)	P010 ANVIS Symbology (ANV)	P100 ANVIS Symbology (ANV)
	TASK #	P230	P014	P010	P100
TASKS	OBJECT	% TRQ Indication (Inflight)	Altitude (Inflight)	Airspeed (Inflight)	Heading (Inflight)
	VERB	Check	Check	Check	59 6 −16

*Since the function is performed randomly and only one task is performed each time the function is selected, the total time is less than the sum of the individual tasks.

TOTAL TIME (Approximate)

FUNCTION 15 Check Map Display System (Copilot)

DURATION (SECONDS)	DISCRETE/ CONTINUOUS								
DURA	DISCRETE/ CONTINUOUS	ş.	رن م	ιĊ	φ.	ιν̈́			
	SWITCH DESCRIPTION		Softkey	Softkey	Softkey	Softkey			
	PSYCHOMOTOR		Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2			
AD COMPONENTS	COGNITIVE	Verify Correct Image Scale C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status G-1.2	Verify Correct Status C-1.2			
WORKLOAD	SENSORY	Visually Discriminate Sensor Verify Correct Image Scale C-1.2	Visually Locate Key V-3.7	Visually Locate Key	Visually Locate Key V-3.7	Visually Locate Key (V-3.7)			
	SUBSYSTEM(S)	C129 Maps/Multifunction Display (NM/MFD)	C181 Multifunction Display (MFD)	C179 Multifunction Display (MFD)	C056 Multifunction Display (MFD)	C037 Multifunction Display (MFD)			
	TASK #	C129	C181	C179	C056	C037			
TASKS	Овлест	Map Display Scale	RNG UP Key	RNG DOWN Key	DECENTER Key	CENTER Key			
	VERB	Check	Press	Press	Press	Press			

5 Seconds	TION NDS)	RETE/ UOUS						 - \	
S.	DURATION (SECONDS)	DISCRETE/ CONTINUOUS	જ.	rύ	ιν	ιĊ	ιύ	 	
TOTAL TIME (Approximate)		SWITCH DESCRIPTION		Softkey	Softkey	Softkey	Softkey		
TOTAL	4	PSYCHOMOTOR		Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey 9-2.2	Press Softkey P-2.2		
	SAD COMPONENTS	COGNITIVE	Verify Correct Image Scale C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status G-1.2	Verify Correct Status G-1.2		
	WORKLOAD	SENSORY	Visually Discriminate Sensor Verify Correct Image Scale Image C-1.2 V-3.7				-		
liot)		SUBSYSTEM(S)	Maps/Multifunction Display (NMMFD)	Multifunction Display Visually Locate Key (MFD)	P179 Multifunction Display Visually Locate Key (MFD)	P056 Multifunction Display Visually Locate Key (MFD)	P037 Multifunction Display Visually Locate Key (MFD)		
ystem (P		TASK #	P129	P181	P179	P056	P037		
16 Check Map Display System (Pilot)	TASKS	овлест	Map Display Scale	RNG UP Key	RNG DOWN Key	DECENTER Key	CENTER Key		
FUNCTION		VERB	Check	Press	Press	Press	Press	 	

TOTAL TIME (Approximate)

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 17 Configure Flight Director

140	DURATION (SECONDS)	DISCRETE/ CONTINUOUS	rů.	ĸ.	ro.	ro.	ψ.	
-			***	-				
		SWITCH DESCRIPTION						
G H	15	PSYCHOMOTOR	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	
	COAD COMPONEN	COGNITIVE	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	
	WORKLOA	SENSORY	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	
		SUBSYSTEM(S)	P195 Multifunction Display (MFD)	P085 Multifunction Display (MFD)	P086 Multifunction Display (MFD)	P087 Multifunction Display (MFD)	P225 Multifunction Display (MFD)	
		TASK *	P195	P085	P086	P087	P225	
3 4 4	TASKS	OBJECT	SYST Key (4)	FPLN Key (4)	FPLN LOAD Key (4)	FPLN ON Key (4)	VSD Key (4)	
		VERB	Press	Press	Press	Press	Press	

TOTAL TIME (Approximate)

FUNCTION 18 Configure Navigation Radios

DURATION SECONDS)	DISCRETE/ CONTINUOUS									
DUR (SECC	DISCE	S.	ιņ	πċ	ώ	ιν	ω .	ν _.	ڻ.	
	SWITCH DESCRIPTION	Softkey								
18	PSYCHOMOTOR	Press Softkey P-2.2	Press Softkey P-2.2	Press Soffkey P-2.2	Press Softkey P-2.2					
LOAD COMPONEN	COGNITIVE	Verify Correct Status C-1.2	Verity Correct Status C-1.2	Verify Correct Status C-1.2						
WORKL	SENSORY	Visually Locate Key V-3.7								
	SUBSYSTEM(S)	C068 Multifunction Display (MFD)	C153 Multifunction Display (MFD)	C004 Multifunction Display (MFD)	C224 Multifunction Display (MFD)	C107 Multifunction Display (MFD)	C149 Multifunction Display (MFD)	C202 Multifunction Display (MFD)	C183 Multifunction Display '(MFD)	
	TASK #	8900	C153	C004	C224	C107	C149	C202	C183	
TASKS	овлест	F/D Көу (2)	NEXT Key (2)	ADF Key (2)	VOR TAC Key (2)	HSD Key (2)	NAV AIDS Key (2)	TCN BRG Key (2)	RTN Key (2)	
	VERB	Press								

TOTAL TIME (Approximate)

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 19 Depart Rendezvous [NVG]

DURATION (SECONDS)	DISCRETE/ CONTINUOUS								
DUR	DISCI	10	ო	N	ιν	ν.	rċ.	بن	ဟ
	SWITCH DESCRIPTION				Softkey	Softkey	Softkey	Softkey	Softkey
0	PSYCHOMOTOR	Move Switches P-2.2	Press Switch and Speak P-2.2		Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2
OAD COMPONENTS	COGNITIVE	Decide Desired Position C-1.2	Encode Message (Refueling Complete) (C-5.3	Make Conditioned Association C-1	Verify Correct Status C-1.2	Verity Correct Status C-1.2	Verity Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2
WORKLOAD	SENSORY	Visually Check Switch Positions and Placement of Switches V-4	Receive Speech Feedback A-4.3	Receive Auditory Message A-4.9	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7
	SUBSYSTEM(S)	Fuel (EF)	C140 Communication (UC)	C002 Communication (UC)	C225 Multifunction Display (MFD)	C110 Multifunction Visually Locate Key Display/Transponder V-3.7 (MFD/TP)	C028 Transponder (TP)	Multifunction Display/Transponder V-3.7 (MFD/TP)	C195 Multifunction Display (MFD)
	TASK	C177	C140	C002	C225	C110	C028	C113	C195
TASKS	овлест	Refuel Panel	Message (Brief)	Acknowledgment	VSD Key (1)	IFF Key (1)	BCN STBY Key (1)	IFF STBY Key (1)	SYST Key (1)
	VERB	Set	Transmit	Receive	Press	Press	Press	Press	Press

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 19 Depart Rendezvous [NVG] [Continued]

	TASKS			WORKLOAD	OAD COMPONENTS	w		DURA (SECC	TION ONDS)
VERB	OBJECT	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	RETE/ NUOUS
Press	FUEL/POWER Key (1)	C091	C091 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	S.	
Check	Fuel Summary	0600	Fuel (EF)	Visually Inspect Symbolic Indication V-4	Interpret Symbolic Readout (Quantity) and Make Judgment (Enough Fuel) C-6.8			ю	
Press	VSD Key (1)	C225	C225 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	κi	
								_	

TOTAL TIME (Approximate) 18.5 Seconds

FUNCTION 20 Engage Level Flight (Auto)

DURATION	(SECONDS) DISCRETE/ CONTINUOUS								
DUR	DISCR	က်	4	4	4	ĸ.	ĸ	ري.	ro.
	SWITCH DESCRIPTION	Softkey	Softkey	Softkey	Softkey	Softkey	Softkey	Softkey	Softkey
	PSYCHOMOTOR	Press Softkey P-2.2	Type Entry P-2.2	Type Entry P-2.2	Type Entry P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2
SAD COMPONENTS	COGNITIVE	Verity Correct Status (F/S Control Layer) C-1.2	Encode and Verify Correct Entry C-5.3	Encode and Verity Correct Entry C-5.3	Encode and Verify Correct Entry C-5.3	Verify Correct Status (F/S Control Layer) C-1.2	Verify Correct Status (F/S Control Layer) C-1.2	Verify Correct Status (F/S Control Layer) C-1.2	Verify Correct Status (F/S Confrol Layer) C-1.2
WORKLOAD	SENSORY	Visually Locate Key V-3.7	Visually Locate Keys and Read Symbolic Display V-5.9	Visually Locate Keys and Read Symbolic Display V-5.9	Visually Locate Keys and Read Symbolic Display V-5.9	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7
	SUBSYSTEM(S)	C068 Multifunction Display (MFD)	C009 Control Display Unit (CDU)	C026 Control Display Unit (CDU)	C099 Control Display Unit (CDU)	C018 Multifunction Display (MFD)	C025 Multifunction Display (MFD)	C097 Multifunction Display (MFD)	C183 Multifunction Display (MFD)
	TASK #	8900	6000	C026	6600	C018	C025	C097	C183
TASKS	OBJECT	F/D Key (1)	Airspeed	BARO Altitude	Heading	A/S SEL Key (1)	BALT SEL Key (1)	HDG SEL Key (1)	RTN Key (1)
	VERB	Press	Enter	Enter	Enter	Press	Press	Press	Press

TOTAL TIME (Approximate) 7.5 Seconds DURATION	-	DESCRIPTION CONTINUOUS	ις	ιο. . α	ro. 01	. 5				
		PSYCHOMOTOR DE				Press Soffkey Soffke				
COMPONENTS	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PSYCHON	vut and status 1 Limits)	out and status 1 Limits) Limits) ed	ut and status Limits) Limits) ut and status Limits)	#	=	*	*	*
		COGNITIVE	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7 Make Conditioned Association (Adjustment Needed) C-1	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7 Make Conditioned Association (Adjustmer Needed) C-1 Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Interpret Readout and Verify Correct Status (Readout Within Limit C-3.7 Make Conditioned Association (Adjustm Needed) C-1 Interpret Readout and Verify Correct Status (Readout Within Limit C-3.7 Verify Correct Status C-1.2	Interpret Readout and Verify Correct Status (Readout Within Limit C-3.7 Make Conditioned Association (Adjustm Needed) C-1 Interpret Readout and Verify Correct Status (Readout Within Limit C-3.7 Verify Correct Status C-1.2 Verify Correct Status C-1.2	Interpret Readout and Verify Correct Status (Readout Within Limit C-3.7 Make Conditioned Association (Adjustm Needed) C-1 Interpret Readout and Verify Correct Status (Readout Within Limit C-3.7 Verify Correct Status C-1.2 Verify Correct Status C-1.2 Verify Correct Status C-1.2	Interpret Readout Verify Correct Stat (Readout Within Li C-3.7 Make Conditioned Association (Adjus Needed) C-1 Interpret Readout Verify Correct Stat C-3.7 Verify Correct Stat C-1.2 Verify Correct Stat C-1.2 Verify Correct Stat C-1.2 C-1.2	Interpret Readout Verify Correct Stat (Readout Within Li C-3.7 Make Conditioned Association (Adjus Needed) C-1 Interpret Readout Verify Correct Stat C-3.7 Verify Correct Stat C-1.2 Verify Correct Stat C-1.2 Verify Correct Stat C-1.2 C-1.2
WORKLOAD	1440	SENSORY	Visually Check Symbolic Indications V-4	Visually Check Symbolic Indications V-4 Visually Detect Aircraft Movement G-1	Visually Check Symbolic Indications V-4 Visually Detect Aircraft Movement G-1 Visually Check Symbolic Indications V-4	Visually Check Symbolic Indications V-4 Visually Detect Aircraft Movement G-1 Visually Check Symbolic Indications V-4 Visually Locate Key V-3.7	Visually Check Symbolic Indications V-4 Visually Detect Aircraft Movement G-1 Visually Check Symbolic Indications V-4 Visually Locate Key Visually Locate Key V-3.7 V-3.7	Visually Check Symbolic Indications V-4 Visually Detect Aircraft Movement G-1 Visually Check Symbolic Indications V-4 Visually Locate Key V-3.7 Visually Locate Key V-3.7 Visually Locate Key V-3.7	Visually Check Symbolic Indications V-4 Visually Detect Aircraft Movement G-1 G-1 Visually Check Symbolic Indications V-4 Visually Locate Key V-3.7 V-3.7 V-3.7 V-3.7	Visually Check Symbolic Indications V-4 Visually Detect Aircraft Movement G-1 G-1 Visually Check Symbolic Indications V-4 Visually Locate Key V-3.7 V-3.7 V-3.7 V-3.7
		SUBSYSTEM(S)	Engine/ANVIS Symbology (EN/AVN)	Engine/ANVIS Symbology (EN/AVN) Night Vision Goggles (VG)	Engine/ANVIS Symbology (EN/AVN) Night Vision Goggles (VG) Engine/ANVIS Symbology (EN/AVN)	Engine/ANVIS Symbology (EN/AVN) Night Vision Goggles (VG) Engine/ANVIS Symbology (EN/AVN) (MHT)	Engine/ANVIS Symbology (EN/AVN) Night Vision Goggles (VG) Symbology (EN/AVN) Multifunction Display (MFD) (MFD)	Engine/ANVIS Symbology (EN/AVN) Night Vision Goggles (VG) Engine/ANVIS Symbology (EN/AVN) Multifunction Display (MFD) Multifunction Display (MFD)	Engine/ANVIS Symbology (EN/AVN) Night Vision Goggles (VG) Engine/ANVIS Symbology (EN/AVN) Multifunction Display (MFD) Multifunction Display (MFD) (MFD)	Engine/ANVIS Symbology (EN/AVN) Night Vision Goggles (VG) Engine/ANVIS Symbology (EN/AVN) Multifunction Display (MFD) Multifunction Display (MFD) (MFD)
		# *	P230	P230	P230					
Z1 Establish Approach (NVG)	0 4 0 4	OBJECT	% TRQ Indication (Inflight)	% TRQ Indication (Infligh	% TRQ Indication (Inflight) Power [NVG] % TRQ Indication (Inflight)	% TRQ Indication (Infligh Power [NVG] % TRQ Indication (Infligh	% TRQ Indication (Infligh % TRQ Indication (Infligh F/D Key (4) HVR SYM Key (4)	% TRQ Indication (Infligh % TRQ Indication (Infligh HVR SYM Key (4) RTN Key (4)	% TRQ Indication (Infligh % TRQ Indication (Infligh HVR SYM Key (4) RTN Key (4)	% TRQ Indication (Infligh % TRQ Indication (Infligh HVR SYM Key (4) RTN Key (4)
_		VERB 0	%							

MH-60K FUNCTION ANALYSIS WORKSHEET

4.5 Seconds	DURATION (SECONDS)	DISCRETE/ CONTINUOUS			
	DUR (SEC	DISC	ς.	~	ro.
TOTAL TIME (Approximate)		SWITCH DESCRIPTION			
TOTAL	118	PSYCHOMOTOR			
	LOAD COMPONENTS	COGNITIVE	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Make Conditioned Association (Adjustment Needed) C-1	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7
	WORKLOAD	SENSORY	Visually Check Symbolic Indications V-4	Visually Detect Aircraft Movement G-1	Visually Check Symbolic Indications V-4
		SUBSYSTEM(S)	Engine/ANVIS Symbology (EN/AVN)	P166 Night Vision Goggles (VG)	Engine/ANVIS Symbology (EN/AVN)
_	TASK *		P230	P166	P230
22 Establish Climb [NVG]	TASKS	овлест	% TPO Indication (Inflight)	Power [NVG]	% TRO Indication (Inflight)
FUNCTION		VERB	Check	Adjust	СРӨСК

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23 Establish Hover [NVG]		I				TOTAL T	TOTAL TIME (Approximate)	3.5 Seconds
TASKS				WORKLOAD	LOAD COMPONENTS	SIR		DURATION (SECONDS)
OBJECT TASK SUBSYSTEM(S)				SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH	DISCRETE/ CONTINUOUS
Power [NVG] P166 Night Vision Gogg (VG)	P166 Night Vision Gogg (VG)	Night Vision Gogg (VG)	səlí	Night Vision Goggles Visually Detect Airdaft (VG) Movement G-1	Make Conditioned Association (Adjustment Needed) C-1			. 6
% TRQ Indication (Inflight) P230 Engine/AnVIS Symbology (EN/AVN)	P230 Engine/ANVIS Symbology (EN/AVN)	Engine/ANVIS Symbology (EN/AVN)		Visually Check Symbolic Indications V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7			ĸ.

5 Seconds	TION NDS)	RETE/ NOOUS			
5 (DURATION (SECONDS	DISCRETE/ CONTINUOUS	-	ĸ	8
TOTAL TIME (Approximate)		SWITCH DESCRIPTION			
TOTAL	178	PSYCHOMOTOR			
	LOAD COMPONENTS	COGNITIVE	Make Conditioned Association (Adjustment Needed) C-1	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Make Conditioned Association (Adjustment Needed) C-1
	WORKLOAD	SENSORY	Visually Detect Aircraft Movement G-1	Visually Check Symbolic Indications V-4	Visually Detect Aircraft Movement G-1
1	SUBSYSTEM(S) Night Vision Goggles (VG) Engine/AlvVIS Symbology (EN/AVN)		Engine/AIVIS Symbology (EN/AVN)	P166 Night Vision Goggles (VG)	
Jht [NVG	TASK #		P022	P230	P166
24 Establish Level of Flight [NVG]	TASKS	OBJECT	Attinde [NVG]	% TRO Indication (Inflight)	Power [NVG]
FUNCTION		VERC	Adjust	СРеск	Adjust

Land Aircraft [NVG]

FUNCTION 25

44 Seconds*

TOTAL TIME (Approximate)

		ľ							ſ
	TASKS			WORKLOAD	OAD COMPONENTS			DURATION (SECONDS)	NOS)
	овлест	TASK	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	TE/ IOUS
Maintain	Obstacle Clearance [NVG]	P159	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Orient Aircraft K-7/G-5	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-	
Control	Altitude [NVG]	P016	P016 Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-	
Control	Attitude [NVG]	P023	P023 Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		 	· · · · · · · · · · · · · · · · · · ·
Control	Heading [NVG]	P102	P102 Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-	<u></u>
Control	Drift [NVG]	P060	Fight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-	· · · · · · · · · · · · · · · · · · ·
Perform	Touchdown [NVG]	P206	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Orient Aircraft K-7/G-5	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		ις	
Check	Obstacle Clearance [NVG]	C158	Night Vision Goggles (VG)	C158 Night Vision Goggles Visually Register Obstacles (VG)	Make Conditioned Association (Aircraft Clear) C-1			m	<u> </u>

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

26 Load	Load Aircraft (Internal)					TOTAL T	TOTAL TIME (Approximate)		98 Seconds
TASKS				WORKLOAD	OAD COMPONENTS	S		DURATION (SECONDS	TION ONDS)
DBJECT #	TASK		SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	ETE/ IUOUS
Loading C126 Cargo (UCA)	C126 (Visually Scan Cargo Compartment V-7	Verify Correct Procedure G-1.2	Move Head P-2.6		09	
Load Secure C125 Cargo (UCA)	C125 C	0 =		Visually Inspect Cargo Compartment V-4	Verify Correct Status G-1.2	Move Head P-2.6		90	
Communication (Crewchief) C046 Communication (UC)	C046	٥ ڪ		Receive Speech Feedback A-4.3	Encode Message (Check Load) C-5.3	Press Switch and Speak P-2.2		ო	
Communication (Crewchief) C045 C	C045 C)	<i>ડ</i> ર	C045 Communication (UC)	Receive Auditory Message A-4.9	Decode Message (Load Secure) C-5.3			б	
									_
	<u> </u>								
	·								

FUNCTION 27 Load Mission Plan

21 Seconds

TOTAL TIME (Approximate)

DURATION (SECONDS)	DISCRETE/ CONTINUOUS	4	ιο,	ιύ	ιĊ	w,	w,	0	w _.
	SWITCH DESCRIPTION			Softkey	Softkey	Softkey	Softkey		Softkey
S L	PSYCHOMOTOR	Insert Cartridge P-2.6	Move Switches P-2.2	Press Softkey P.2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2		Press Softkey P-2.2
OAD COMPONENTS	COGNITIVE	Verify Correct Status (Cartridge In) G-1.2	Verify Correct Status (Light Not Illuminated) C-1.0	Verify Correct Status C-1.2	Verify Correct Status (First Depression)	Verify Correct Status (Second Depression) FC-1.2	Verify Correct Status (Second Depression) C-1.2	Interpret Readout and Verify Correct Status (Mission Loaded) C-3.7	Verify Correct Status C-1.2
WORKLOA	SENSORY	Visually Coordinate Hand Visually Coordinate Hand Vovement V-5	Visually Check and Register Light V-1	Visually Locate Key V-3.7	Visually Locate Key	Visually Locate Key (Visually Locate Key V-3.7	Visually Check Symbolic Indications V-4	Visually Locate Key V-3.7
	SUBSYSTEM(S)	CO61 Data Transfer Unit (DTU)	C029 Data Transfer Unit (DTU)	C195 Multifunction Display (MFD)	C142 Multifunction Display V (MFD)	C142 Multifunction Display N (MFD)	C122 Multifunction Display (MFD)	C141 Multifunction Display (MFD)	C107 Multitunction Display (MFD)
	TASK #	C061	C029	C195	C142	C142	C122	C141	C107
TASKS	ОВЈЕСТ	DTM Cartridge	Bit Light	SYST Key (2)	MISSN LOAD Key (2)	MISSN LOAD Key (2)	LEGS Key (2)	Mission Loaded	HSD Key (2)
	VERB	insert	Check	Press	Press	Press	Press	Verify	Press

Change
Mission (
58
NCTION

	28 Mission Change					TOTAL T	TOTAL TIME (Approximate)	18 Se	18 Seconds
TASKS				WORKLOAD	AD COMPONENTS			DURATION (SECONDS)	NO DS)
OBJECT		TASK *	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	TE/ OUS
Message Alert	±	C138	Communication (UC)	Register Sound/Visually 1 Register Advisory A-1/V-1	Interpret Symbolic Readout C-3.7			-	
SYST Key (1)		C195	Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	κύ	
ATHS MENU Key (1)	J Key (1)	C020	Communication/ Multifunction Display (UC/MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ĸ,	
DISP MSGS Key (1)	; Key (1)	C058	Communication/ Visually Locate Key Multitunction Display V-3.7 (UC/MFD)		Verily Correct Status C-1.2	Press Softkey P-2.2	Softkey	ĸ.	
Message		C135	C135 Communication (UC)	Read Symbolic Display 16.5.9	Interpret Symbolic Readout C-3.7			5	
RTN Key (1)		C183	C183 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Soffkey P-2.2	Soffkey	ıç.	
									
									7

32

FUNCTION	29 Monitor Audio					TOTAL	TOTAL TIME (Approximate)	Continuous*	•snor
	TASKS			WORKLOAD	LOAD COMPONENTS	ITS	,	DURATION (SECONDS)	N (S)
VERB	OBJECT	TASK *	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETI	E. Sus
Monitor G-32	Audio	B024	Communication/ Survivability (UC/US)	Register Sound	Recognize Auditory Signal C-1				©

*The total time for this function varies with the segment in which the function occurs.

TOTAL TIME (Approximate) Continuous*

FUNCTION 30 Monitor External Visual Field (Copilot) [NVG]

DURATION (SECONDS) DISCRETE/ CONTINUOUS		②
DURA (SECO	DISCR	
	SWITCH DESCRIPTION	
	ď	
NTS	PSYCHOMOTOR	
PONE	<u>u</u>	
OAD COM	COGNITIVE	Make Conditioned Association (Flight Path Clear) C-1
WORKLO	SENSORY	(VG) G-1
	SUBSYSTEM(S)	Night Vision Goggles (VG)
	TASK *	C067
TASKS	OBJECT	External Scene [NVG]
	VERB	Ç 33

*The total time for this function will vary depending on the length of the segment.

TOTAL TIME (Approximate) Continuous*

FUNCTION 31 Monitor External Visual Field (Pilot) [NVG]

TASKS TASK	z		©
TASK S WORKLOAD COMPONENTS VERB OBJECT # SUBSYSTEM(S) SENSORY CCONTINE PSYCHOMOTOR DESCRIPTION Check External Scene (NVG) POOF (NG) Might Vision Coggles (Vuesily Register Obstancies) Association (Fight Path Clean) C-1 Association (Fight Path Clean) C-1	*ATIO	CRETE CRETE	
TASK S WORKLOAD COMPONENTS VERB OBJECT # SUBSYSTEM(S) SENSORY CCONTINE PSYCHOMOTOR DESCRIPTION Check External Scene (NVG) POOF (NG) Might Vision Coggles (Vuesily Register Obstancies) Association (Fight Path Clean) C-1 Association (Fight Path Clean) C-1		SE DIS CON1	
TASK S			
TASK S		MTCH KRIPT(
VERB OBJECT TASK SUBSYSTEM(S) SENSORY COANTIVE Check External Scene [NVG] Night Vision Goggles (Yaually Register Obstacles Association (VG) (VG) (YG) (YG) (YG) (YG) (YG) (YG) (YG) (Y		SV DESC	
VERB OBJECT TASK SUBSYSTEM(S) SENSORY COANTIVE Check External Scene [NVG] Night Vision Goggles (Yaually Register Obstacles Association (VG) (VG) (YG) (YG) (YG) (YG) (YG) (YG) (YG) (Y			
VERB OBJECT TASK SUBSYSTEM(S) SENSORY COANTIVE Check External Scene [NVG] Night Vision Goggles (Yaually Register Obstacles Association (VG) (VG) (YG) (YG) (YG) (YG) (YG) (YG) (YG) (Y			
VERB OBJECT TASK SUBSYSTEM(S) SENSORY COANTIVE Check External Scene [NVG] Night Vision Goggles (Yaually Register Obstacles Association (VG) (VG) (YG) (YG) (YG) (YG) (YG) (YG) (YG) (Y	<u> </u>	 POTOR	
VERB OBJECT TASK SUBSYSTEM(S) SENSORY COANTIVE Check External Scene [NVG] Night Vision Goggles (Yaually Register Obstacles Association (VG) (VG) (YG) (YG) (YG) (YG) (YG) (YG) (YG) (Y		CHOM	
VERB OBJECT # SUBSYSTEM(S) SENSORY COGNITIVE Check External Scene (NVG) PO67 Night Vision Googles (Vaually Register Obstacles Make Conditioned (VO) (VO) (Fight Path Clear) C-1 C-1 C-1 W O R K L O A D C O M P O COMP	Z W	PSY	
VERB OBJECT # SUBSYSTEM(S) SENSORY COGNITIVE Check External Scene (NVG) (VG) (VG) (VG) (VG) (VG) (VG) (VG) (0		
TASK Subsystem(s) WORK L VERB OBJECT # Subsystem(s) SENSORY Check External Scene [NVG] P067 Night Vision Goggles Visually Register Obstacles (VG) G-1	_ ≥		ear)
TASK Subsystem(s) WORK L VERB OBJECT # Subsystem(s) SENSORY Check External Scene [NVG] P067 Night Vision Goggles Visually Register Obstacles (VG) G-1]] E	tion dition at the Character of the Char
TASK Subsystem(s) WORK L VERB OBJECT # Subsystem(s) SENSORY Check External Scene [NVG] P067 Night Vision Goggles Visually Register Obstacles (VG) G-1	<) OGN	Aake C Associa
VERB OBJECT Check External Scene (NVG)	-		sogs
VERB OBJECT Check External Scene (NVG)	<u> </u>		O Osta
VERB OBJECT Check External Scene (NVG)	≥		egister eggister
VERB OBJECT Check External Scene (NVG)		NSOR	ually R
VERB OBJECT Check External Scene (NVG)	-	SEI	88 N N N N N N N N N N N N N N N N N N N
VERB OBJECT Check External Scene (NVG)		M(S)	Google Google
VERB OBJECT Check External Scene (NVG)		YSTE	Vision
VERB OBJECT Check External Scene (NVG)		SOUBS	Night (VG)
VERB OBJECT Check External Scene (NVG)		TASK *	P067
Check		1	
Check			[NNG]
Check	S		Scene
Check	AS	NECT	ternat
	-	8	Щ
		g l	∀
G-34		V. P. P.	

*The total time for this function will vary depending on the length of the segment.

Monitor Flight Controls

FUNCTION 32

Continuous*

TOTAL TIME (Approximate)

(TION SNDS)	RETE/	(9)
DURA (SECC	DISCRETE/ CONTINUOUS	
	SWITCH DESCRIPTION	
SLR	PSYCHOMOTOR	
LOAD COMPONENTS	COGNITIVE	Make Conditioned Association C-1
WORKLOAD	SENSORY	Make Conditioned Association K-1
	SUBSYSTEM(S)	Flight Control (FC)
	TASK #	690d
TASKS	OBJECT	Flight Controls
	VERB	W pig G-35

*The total time for this function will vary depending on the length of the segment.

MH-60K FUNCTION ANALYSIS WORKSHEET

33

FUNCTION

DURATION (SECONDS) DISCRETE/ CONTINUOUS ত TOTAL TIME (Approximate) SWITCH DESCRIPTION **PSYCHOMOTOR** WORKLOAD COMPONENTS Evaluate Sensory Feedback C-4.6 COGNITIVE Visually Check Sensor Image V-4 SENSORY C076 Forward-Looking Infrared (FLIR) (FLR) SUBSYSTEM(S) TASK Monitor FLIR Image (Copilot) FUR Image TASKS OBJECT VERB Check

TOTAL TIME (Approximate)

MH-60K FUNCTION ANALYSIS WORKSHEET

Monitor FLIR Image (Pilot)

NOIL	ETE/ IUOUS	(0)
DURA SECS	DISCRETE/ CONTINUOUS	
	SWITCH	
18	PSYCHOMOTOR	
LOAD COMPONENTS	COGNITIVE	Evaluate Sensory Feedback C-4.6
WORKLOAD	SENSORY	Visually Check Sensor Image V-4
	SUBSYSTEM(S)	Forward-Looking Infrared (FLIR) (FLR)
	TASK	P076
TASKS	OBJECT	FUR Image
	VERB	Check

MH-60K FUNCTION ANALYSIS WORKSHEET

Continuous	DURATION (SECONDS)	DISCRETE/ CONTINUOUS	©
	DUR (SEC	CONTI	
TOTAL TIME (Approximate)		SWITCH	
TOTAL	15	PSYCHOMOTOR	
	LOAD COMPONENTS	COGNITIVE	Evaluate Sensory Feedback C-4.6
	WORKLOAD	SENSORY	Visually Check Sensor Image V-4
Ų.		SUBSYSTEM(S)	C170 RADAR (NRA)
e (Copilo		TASK #	C170
35 Monitor RADAR Image (Copilot)	TASKS	OBJECT	RADAR image
FUNCTION		VERB	Check

TOTAL TIME (Approximate)

Monitor RADAR Image (Pilot)

36

3.5 Seconds

TOTAL TIME (Approximate)

MH-60K FUNCTION ANALYSIS WORKSHEET

Monitor Threat (Copilot)

TION SQN	ETE/ UOUS	
DURA	DISCRETE/ CONTINUOUS	ဇ
	SWITCH DESCRIPTION	
ø	PSYCHOMOTOR	
DAD COMPONENTS	COGNITIVE	Recognize Visual Signal (Threat Present) C-3.7
WORKLOAD	SENSORY	V-1
	SUBSYSTEM(S)	Survivability (US)
	TASK	C057
TASKS	OBJECT	Direction Display
	VERB	Check

3.5 Seconds

MH-60K FUNCTION ANALYSIS WORKSHEET

3.5 Seconds	ATION ONDS)	DISCRETE/ CONTINUOUS	
	SEC SEC	DISC	м
TOTAL TIME (Approximate)		SWITCH	
TOTAL	S	PSYCHOMOTOR	
	OAD COMPONENTS	COGNITIVE	Recognize Visual Signal (Threat Present) C-3.7
	WORKLOAD	SENSORY	Detect Visual Image V-1
		SUBSYSTEM(S)	Survivability (US)
		TASK *	P057
38 Monitor Threat (Pilot)	TASKS	OBJECT	Direction Display
FUNCTION		VERB	Check

TOTAL TIME (Approximate) 240 Seconds*

Perform Aerial Refueling [NVG]

	TASKS			WORKLOAD	DAD COMPONENTS			DURATION	NO
VERB	OBJECT	TASK	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH	(SECONDS) DISCRETE/ CONTINUOUS	TE/ JOUS
Transmit	Message (Brief)	C140	C140 Communication (UC)	Receive Speech Feedback A-4.3	Encode Message (Present Status) C-5.3	Press Switch and Speak P-2.2	Springloaded Press - 2 Positions (SP-2)	ю	
Receive	Message	C136	C136 Communication (UC)	Receive Auditory Message A-4.9	Decode Message C-5.3			· ·	<u> </u>
Transmit	Acknowledgment	C003	C003 Communication (UC)	Receive Speech Feedback A-4.3	Encode Message C-5.3	Press Switch and Speak P-2.2	Springloaded Press - 2 Positions (SP-2)	ณ	** ₁
A eui k ∧ C−42	Ргове Ноокир	B167	Night Vision Goggles (VG)	Night Vision Goggles Visually Discriminate (VG) G-5.0	Evaluate Sensory Feedback and Make Judgment (Connected) C-4.6			4	
Transmit	Message (Brief)	C140	C140 Communication (UC)	Receive Speech Feedback A-4.3	Encode Message (Begin Refueling) C-5.3	Press Switch and Speak P-2.2	Springloaded Press - 2 Positions (SP-2)	м	
Receive	Acknowledgment	C002	C002 Communication (UC)	Receive Auditory Message A-4.9	Make Conditioned Association C-1			N N	
Press	INST Key (1)	C116	Multifunction Display Visually Locate Key (MFD)		Verify Correct Status (Power Train Display) C-1.2	Press Softkey P-2.2	Softkey	٠,	<u>.</u>
Check	Fuel Indicator	6800	Fuel/Multifunction Display (EF/MFD)	Read Symbolic Indication V-5.9	Interpret Symbolic Readout and Make Judgment (Enough Fuel) C-4.6			м	
			,						

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 39 Perform Aerial Refueling [NVG] [Continued]

DURATION (SECONDS)	PETE/				
DURA (SECC	DISCRETE/ CONTINUOUS	ဧ	N .	4	8
	SWITCH DESCRIPTION	Springloaded Press - 2 Positions (SP-2)			
	PSYCHOMOTOR	Press Switch and Speak P-2.2			
DAD COMPONENTS	COGNITIVE	Encode Message (Refueling Complete) C-5.3	Make Conditioned Association C-1	Interpret Symbolic Readout and Make Judgment (No Increase) C-4.6	Evaluate Sensory Feedback and Make Judgment (Disconnected) C-4.6
WORKLOAD	SENSORY	Receive Speech Feedback A-4.3	Receive Auditory Message A-4.9	Read Symbolic Indication V-5.9	Visually Discriminate Alignment Differences G-5.0
	SUBSYSTEM(S)	C140 Communication (UC)	C002 Communication (UC)	Fuel/Multifunction Display (EF/MFD)	B168 Night Vision Goggles (VG)
	TASK #	C140	C002	C178	B 168
TASKS	OBJECT	Message (Brief)	Acknowledgment	Refueling Ceased	Probe Unhooked
	VERB	Transmit	Receive	Verify	Verify

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION	40 Perform After Landing Check	g Check				TOTAL	TOTAL TIME (Approximate)	11.5 Seconds
	TASKS			WORKLOAD	OAD COMPONENTS	•		DURATION (SECONDS)
VERB	овлест	TASK *	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS
Press	SYST Key (1)	C195	C195 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ις
Press	CHECK LISTS Key (1)	C039	C039 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιο
Press	SEQ Key (1)	C186	C186 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιν̈́
\$ \$ 2 3 3 4 4	GET LIST Key (1)	C092	C092 Multifunction Display Visually Locate Key (MFD)		Verity Correct Status C-1.2	Press Softkey P-2.2	Softkey	κύ.
Сћеск	Radios	C172	Communication/ Multifunction Display II (UC/MFD)	C172 Communication/ Visually Check Symbolic Multifunction Display Indications (UC/MFD)	Interpret Symbolic Readouts and Verify Correct C-5.3			4
Set	TAILWHEEL Switch	C 199	C199 Gear (FG)	Visually Locate Switch V-3.7	Decide Correct Position (Unlock) C-1.2	Press Switch P-2.2	Springloaded Press (SP)	·
Check	Tailwheel Advisory Light	C198	C198 Advisory (UAD)	Visually Register Light V-1	Verify Correct Status C-1.2			-

=	Perform Before Hover Check	Check			:	TOTAL	TOTAL TIME (Approximate)	64.5 Seconds
TASKS				WORKLOAD	DAD COMPONENTS	•		DURATION (SECONDS)
OBJECT		TASK *	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS
Rotor RPM		P182	P182 ANVIS Symbology (ANV)	Visually Inspect Symbolic Indications V-4	Interpret Sensory and Symbolic Readouts and Verify Correct Status (100%) C-3.7			rō.
F/D Key (4)		P068	P068 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	κ
HVR SYM Key (4)		P108	P108 Multifunction Display Visually Locate Key (MFD)	Visually Locate Key V-3.7	Verity Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιύ
RTN Key (4)		P183	P183 Multifunction Display Visually Locate Key (MFD)	Visually Locate Key V-3.7	Venity Correct Status C-1.2	Press Softkey P-2.2	Softkey	ro.
HIT Check		P106	Flight Control/ Multifunction Display (FC/MFD)	Flight Control Multifunction Display Visually Monitor Symbolic Indications (FC/MFD) K-7/V-4	Interpret Sensory and Symbolic Readouts and Make Comparison (Indication Same as Performance Charts) C-3.7	Control Pressure P-2.6		0 9

FUNCTION	42 Perform Before Landing Check	ng Chec	*	Ī		TOTAL 1	TOTAL TIME (Approximate)	56 Se	26 Seconds
	TASKS			WORKLOAD	OAD COMPONENTS			DURATION (SECONDS)	NON EDS)
VERB	OBJECT	**	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWTCH DESCRIPTION	DISCRETE/ CONTINUOUS	TE/ JOUS
Press	SYST Key (1)	C195	Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ĸ.	
Press	CHECK LISTS Key (1)	6600	C039 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	ĸ,	
Press	SEQ Key (1)	C186	C186 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status 6-1.2	Press Softkey P-2.2	Softkey	ις.	· · · · · · · · · · · · · · · · · · ·
Press	GET LIST Key (1)	C092	C092 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	ĸ.	
Check	Rotor RPM	C182	C182 ANVIS Symbology (ANV)	Visually Inspect Symbolic Indications V-4	Interpret Sensory and Symbolic Readouts and Verify Correct Status (100%) C-3.7			ĸ.	
Check	WCA Light	C227	C227 Multifunction Display Visually Register Light (MFD)		Verify Correct Status (Light Extinguished) C-1.2			-	
Check	Radios	C172	C172 Communication/ Multifunction Display I (UC/MFD)	Visually Check Symbolic Indications V-4	Interpret Symbolic Readouts and Verify Correct C-5.3			-	
Check	Park Brake	C161	Brakes (FB)	Visually Inspect Handle Position V-4	Verify Current Position Correct (Unlocked) C-2			-	

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 42 Perform Before Landing Check [Continued]

	TASKS			WORKLOAD	OAD COMPONENTS			DUR (SECC	DURATION SECONDS)
VERB	ОВЈЕСТ	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCE	DISCRETE/ CONTINUOUS
Press	F/D Key (2)	8900	Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status (F/D Control Layer) C-1.2	Press Softkey P-2.2	Softkey	ဟု	
Press	A/S SEL Key (2)	C018	Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status (Off) C-1.2	Press Softkey P-2.2	Softkey	ιύ	
Press	BALT SEL Key (2)	C025	C025 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status (Off) C-1.2	Press Softkey P-2.2	Softkey	ιν̈́	
Press	HDG SEL Køy (2)	C097	C097 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status (Off) C-1.2	Press Softkey P-2.2	Softkey	ν.	
Press	RTN Key (2)	C183	C183 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	٠. دي	
Check	Tailwheel Advisory Light	C198	C198 Advisory (UAD)	Visually Register Light V-1	Verify Correct Status (Locked) C-1.2			-	
Press	ASE Key	C019	Survivability/ Control Display Unit (US/CDU)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ĸ.	
Press	MASTER Key	C133	Survivability/ Control Display Unit (US/CDU)	Visually Locate Key V-3.7	Verify Correct Status (Off) C-1.2	Press Softkey P-2.2	Softkey	rv.	

FUNCTION 42 Perform Before Landing Check [Continued]

DURATION (SECONDS) DISCRETE/ CONTINUOUS				
		ю	m	νo.
SWITCH		Springloaded Press - 2 Positions (SP-2)		Softkey
WORKLOAD COMPONENTS	PSYCHOMOTOR	Press Switch and Speak P-2.2		Press Soffkey
	COGNITIVE	Encode Message C-5.3	Decode Message (Crew Secure) C-5.3	Verify Correct Status (VSD Control Layer) C-1.2
	SENSORY	Receive Speech Feedback A-4.3	Receive Auditory Message A-4.9	
SUBSYSTEM(S)		C052 Communication (UC)	_	C225 Multifunction Display Visually Locate Key (MFD)
TASK		C052	C045	C225
TASKS	овлест	Сгеж	Communication (Crewchief) C045 Communication (UC)	VSD Key (1)
	VERB	Check	Receive	Press S

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FUNCTION	43 Perform Before Landing Check (LZ)	ng Chec	*(Z)			TOTAL	TOTAL TIME (Approximate)		26 Seconds
	TASKS			WORKLOAD	OAD COMPONENTS	•		DURATION	NOI (SQN
VERB	OBJECT	TASK *	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	ETE/ Jous
Press	SYST Key (1)	C195	C195 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιν̈́	
Press	CHECK LISTS Key (1)	C039	C039 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιν̈́	
Press	SEQ Key (1)	C186	C186 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	rù.	<u>.</u>
ssaud.	GET LIST Key (1)	C092	C092 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	ν.	
Check	Rotor RPM	C182	C182 ANVIS Symbology (ANV)	Visually Inspect Symbolic Indications V-4	Interpret Sensory and Symbolic Readouts and Verify Correct Status (100%) C-3.7			w _.	
Check	WCA Light	C227	C227 Multifunction Display Visually Register Light (MFD)		Verify Correct Status (Light Extinguished) C-1.2			-	
СРВСК	Radios	C172	C172 Communication/ Multitunction Display I (UC/MFD)	Visually Check Symbolic Indications	Interpret Symbolic Readouts and Verify Correct C-5.3			-	
Check	Park Brake	C161	C161 Brakes (FB)	Visually Inspect Handle Position V-4	Verify Current Position Correct (Unlocked) C-2			-	<u> </u>

FUNCTION 43 Perform Before Landing Check (LZ) [Continued]

DURATION (SECONDS)	DISCRETE/ CONTINUOUS								
DUR (SEC	DISCI	بە: 	بن ب	 რ	ις. 	ιν _.	-	 rv	ب ب
	SWITCH DESCRIPTION	Softkey	Softkey	Softkey	Softkey	Softkey		Softkey	Softkey
	PSYCHOMOTOR	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Soffkey P-2.2		Press Softkey P-2.2	Press Softkey P-2.2
DAD COMPONENTS	COGNITIVE	Verify Correct Status (F/D Control Layer) C-1.2	Verify Correct Status (Off) C-1.2	Verify Correct Status (Off) C-1.2	Verify Correct Status (Off) C-1.2	Verify Correct Status C-1.2	Verify Correct Status (Locked) C-1.2	Verity Correct Status C-1.2	Verify Correct Status (Off) C-1.2
WORKLOAD	SENSORY	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Register Light V-1	Visually Locate Key V-3.7	Visually Locate Key V-3.7
	SUBSYSTEM(S)	C068 Multifunction Display (MFD)	C018 Multifunction Display (MFD)	C025 Multifunction Display (MFD)	C097 Multifunction Display (MFD)	C183 Multifunction Display (MFD)	C198 Advisory (UAD)	Survivability/ Control Display Unit (US/CDU)	Survivability/ Control Display Unit (US/CDU)
	TASK #	8900	C018	C025	2600	C183	C198	C019	C133
TASKS	ОВЈЕСТ	F/D Key (2)	A/S SEL Key (2)	BALT SEL Køy (2)	HDG SEL Key (2)	RTN Key (2)	Tailwheel Advisory Light	ASE Key	MASTER Key
	VERB	Press	Press	Press	Press	Press	Сћеск	Press	Press

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 43 Perform Before Landing Check (LZ) [Continued]

ATION SONDS)	RETE/ NUOUS			
DUR (SECC	DISCRETE/ CONTINUOUS	E	ო	ω .
	SWITCH DESCRIPTION	Springloaded Press - 2 Positions (SP-2)		Softkey
Ø	PSYCHOMOTOR	Press Switch and Speak P-2.2		Press Softkey
SAD COMPONENTS	COGNITIVE	Encode Message C-5.3	Decode Message (Crew Secure) C-5.3	Verify Correct Status (VSD Control Layer) C-1.2
WORKLOAD	SENSORY	Receive Speech Feedback A-4.3	Receive Auditory Message A-4.9	
	SUBSYSTEM(S)	C124 Communication (UC)		(MFD) Visually Locate Key (MFD)
	TASK #	C124	C045	C225
TASKS	OBJECT	Load Secure	Communication (Crewchief) C045 Communication (UC)	VSD Key (1)
	VERB	Check	Receive	S S S S S S S S S S S S S S S S S S S

TOTAL TIME (Approximate)

FUNCTION 44 Perform Before Takeoff Check

	TASKS			WORKLOAD	LOAD COMPONENTS	7.5		DURATION	NO O
VERB	OBJECT	TASK *	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	(SECONDS) DISCRETE/ CONTINUOUS	TE/ OUS
Press	SYST Key (1)	C195	C195 Multifunction Display Visually Locate Key (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	က	
P. S.	CHECK LISTS Key (1)	6203	C039 Multifunction Display Visually Lc2ate Key (MFD)	Visually Lctate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ν.	
Press	SEQ Key (1)	C186	C186 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	w.	
ssa G-52	GET LIST Key (1)	C092	C092 Multifunction Display Visually Locate Key (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ις	
Press	INST Key (4)	P116	P116 Multifunction Display Visually Locate Key (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	rù.	· · · · · · · · · · · · · · · · · · ·
Check	Fuel Summary (4)	P090 Fuel (EF)		Visually Inspect Symbolic Indication V-4	Interpret Symbolic Readout (Quantity) and Make Judgment (Enough Fuel) C-6.8			м	
Check	Engine Display (4)	P062	Engine/Multifunction Display (EN/MFD)	Engine/Multifunction Visually Scan Symbolic Display Indications V-7	Interpret Sensory and Symbolic Readouts and Verify Correct Status (Readouts Within Limits) C-3.7			ιΩ	
Press	VSD Key (3)	P225	P225 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιν̈	

*Total time does not include tasks the pilot will perform while the copilot is performing his tasks.

FUNCTION 44 Perform Before Takeoff Check [Continued]

	TASKS			WORKLO	LOAD COMPONENTS	13		DURA	DURATION
VERB	овлест	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE	DISCRETE/
Check	Vertical Situation Display (3) P220 Multifunction Display Visually Scan Symbolic (MFD) Indications (V-7	P220	Multifunction Display (MFD)		Interpret Sensory and Symbolic Readouts and Verify Correct Status C-3.7			S.	
Press	DCLT Key (3)	P055	P055 Multifunction Display Visually Locate Key (MFD)		Verity Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιύ	
Press	FLIR Key (3)	P077	P077 Multifunction Display V (MFD)	isually Locate Key	Verify Correct Status C-1.2	Press Softkey P-2.2	Soffkey	πċ	
Press	FPV Key (3)	P088	P088 Multifunction Display Visually Locate Key (MFD)		Veniy Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιν̈́	
Press	FOV Key (3)	P082	P082 Multifunction Display Visually Locate Key (MFD)		Verity Correct Status C-1.2	Press Softkey P-2.2	Softkey	ις	
Press	POL Key (3)	P164	P164 Multifunction Display Visually Locate Key (MFD)		Verify Lorrect Status C-1.2	Press Soffkey P-2.2	Softkey	ς. 	
Press	SYST Key (2)	C195	C195 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	40	
Press	FPLN Key (2)	C085	C085 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Soffkey P-2.2	Softkey	ις.	

FUNCTION 44 Perform Before Takeoff Check [Continued]

	TASKS			WORKLO	AD COMPONE	NTS		DURATION (SECONDS)	N (S)
VERB	OBJECT	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	E/ SUS
Press	FPLN ON Key (2)	C087	C087 Multifunction Display Visual (MFD)	ly Locate Key	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	S.	
Press	HSD '.ey (2)	C107	C107 Multifunction Display Visually Locate Key (MFD)		Verity Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιń	
Press	F/D Key (2)	8900	C068 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	rυ,	
Press	WYPT Key (2)	C228	C228 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	νį	
Press	CRS Key (2)	C053	C053 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	rù	
Press	RTN Key (2)	C183	C183 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ν _.	
Press	WCA Key (2)	C226	C226 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	ю. 	
Check	CAUTION/WARNING/ Advisory Display (2)	C035	Advisory/ Multitunction Display ((UAD/MFD)	Advisory/ Visually Check Symbolic Multifunction Display Display (UAD/MFD) V-4	Verify Correct Status (No Entries C-1.2			<u>-</u>	

FUNCTION 44 Perform Before Takeoff Check [Continued]

DURATION (SECONDS)	DISCRETE/ CONTINUOUS	ις	·		rù.	ιο _.	ω _.		w _.
				4	**********		-		
	SWITCH DESCRIPTION	Softkey			Softkey	Softkey	Softkey	Softkey	Softkey
18	PSYCHOMOTOR	Press Softkey P-2.2			Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2
LOAD COMPONEN	COGNITIVE	Verify Correct Status C-1.2	Verify Current Position Correct (Unlocked) C-2	Interpret Symbolic Readouts and Verity Correct C-5.3	Verify Correct Status C-1.2	Verify Correct Status (On) G-1.2	Verify Correct Status (On) C-1.2	Verify Correct Status (On) C-1.2	Verify Correct Status (On) C-1.2
WORKLO	SENSORY	Visually Locate Key V-3.7	Visually Inspect Handle Position V-4	Visually Check Symbolic Indications	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7
	SUBSYSTEM(S)	Multifunction Display (MFD)	Brakes (FB)	Communication/ Multifunction Display (UC/MFD)	Survivability/ Control Display Unit (US/CDU)	Survivability/ Control Display Unit (US/CDU)	Multifunction Display (MFD)	P176 Multifunction Display (MFD)	P 196 Multifunction Display (MFD)
	TASK *	C183	C161	C172	C019	C133	P107	P176	P196
TASKS	OBJECT	RTN Key (2)	Park Brake	Radios	ASE Key	MASTER Key	HSD Key (4)	RDR Key (4)	TA Key (4)
	VERB	Press	Check	Check	Press	Press	Press	Press	Press

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 44 Perform Before Takeoff Check [Continued]

	TASKS			WORK	LOAD COMPONEN	18		DURATION (SECONDS)
VERB	овлест	TASK *	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS
Press	DCLT Key (4)	P055	Multifunction Display Visual (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	ن و.
Press	MAP Key (2)	C131	Multitunction Display Visual (MFD)	ly Locate Key	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ις.
Press	CTR Key (2)	C054	C054 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	ro.
Press	DCLT Key (2)	C055	C055 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	ĸ,
Press	VSD Key (1)	C225	C225 Multifunction Display Visually Locate Key (MFD)	Visually Locate Key	Verify Correct Status C-1.2	Press Sottkey P-2.2	Softkey	ĸ,
Press	RDR Key (1)	C176	Multifunction Display Visually Locate Key (MFD)	Visually Locate Key V-3.7	Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	ڻ.
Press	TF Key (1)	C203	C203 Multifunction Display Visual (MFD)	Visually Locate Key	Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	ω
Press	GM/TF Key (1)	C093	Multifunction Display Visually Locate Key (MFD)	Visually Locate Key	Verify Correct Status C-1.2	Press Sottkey P-2.2	Softkey	ιό
<u> </u>								

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 44 Perform Before Takeoff Check [Continued]

rion NDS)	ETE/ UOUS				
DURATION (SECONDS)	DISCRETE/ CONTINUOUS	rύ	ιn	ღ	
	SWITCH DESCRIPTION	Softkey	Softkey		
1.5	PSYCHOMOTOR	Press Softkey P-2.2	Press Softkey P-2.2		
LOAD COMPONENTS	COGNITIVE	Venify Correct Status C-1.2	Verify Correct Status (Radar Clearance Altitude) C-1.2	Decode Message (Crew Secure) C-5.3	
WORKLOAD	SENSORY	Visually Locate Key V-3.7		Receive Auditory Message A-4.9	
	SUBSYSTEM(S)	P055 Multifunction Display Visually Locate Key (MFD)	C034 Multifunction Display Visually Locate Key (MFD)		
	TASK #	P055	C034	C045	
TASKS	OBJECT	DCLT Key (1)	CALT Key (1)	Communication (Crewchief) C045 Communication (UC)	
	VERB	Press	Press	Receive	

FUNCTION	45 Perform Before Takeoff Check (LZ)	off Check	k (LZ)			TOTAL	TOTAL TIME (Approximate)	31 Seconds	spuc
	TASKS			WORKLO	LOAD COMPONENTS	18		DURATION	zŵ
VERB	ОВЈЕСТ	TASK	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	ŪS —
Press	SYST Key (1)	C195	C195 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ις.	
Press	CHECK LISTS Key (1)	6603	C039 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	rò.	
Press	SEQ Key (1)	C186	C186 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	_.	 .
Press	GET LIST Køy (1)	C092	C092 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	w.	
Press	INST Key (2)	C116	C116 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	ro.	 .
Check	Fuel Summary (2)	C090 Fuel (EF)		Visually Inspect Symbolic Indication	Interpret Symbolic Readout (Quantity) and Make Judgment (Enough Fuel) C-6.8			ო	
Check	Engine Display (2)	C062	Engine/Multifunction	Engine/Multifunction Visually Scan Symbolic Display Indications V-7	Interpret Sensory and Symbolic Readouts and Verify Correct Status (Readouts Within Limits) C-3.7			رم د	
Press	WCA Key (2)	C226	C226 Multifunction Display Visually Locate Key (MFD) V-3.7		Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	ιo _.	

FUNCTION 45 Perform Before Takeoff Check (LZ) [Continued]

DURATION (SECONDS)	DISCRETE/ CONTINUOUS									
Ā Š	CON	-	ω _.		4	ىن. 	٠ <u>٠</u> .	ო	ى. 	٠ <u>٠</u>
	SWITCH DESCRIPTION		Softkey			Softkey	Softkey		Softkey	Softkey
TS	PSYCHOMOTOR		Press Softkey P-2.2			Press Softkey P-2.2	Press Softkey P-2.2		Press Softkey P-2.2	Press Softkey P-2.2
OAD COMPONEN	COGNITIVE	Verify Correct Status (No Entries) C-1.2	Verify Correct Status C-1.2	Verify Current Position Correct (Unlocked) C-2	Interpret Symbolic Readouts and Verify Correct C-5.3	Venity Correct Status C-1.2	Verify Correct Status (On) C-1.2	Verify Secure (Crew Secure) C-5.3	Verify Correct Status C-1.2	Venity Correct Status C-1.2
WORKL	SENSORY	Visually Check Symbolic Display	Visually Locate Key (-3.7	Visually Inspect Handle Position	Visually Check Symbolic Indications	Visually Locate Key V-3.7	Visually Locate Key	Receive Auditory Message 4-4.9	Visually Locate Key V-3.7	Visually Locate Key V-3.7
•	SUBSYSTEM(S)	Advisory/ Multifunction Display ((UAD/MFD)	C183 Multifunction Display (MFD)		Communication/ Multitunction Display { (UC/MFD)	C019 Survivability/ Control Display Unit (US/CDU)	C133 Survivability/ Control Display Unit (US/CDU)		C107 Multifunction Display (MFD)	C225 Multifunction Display (MFD)
	TASK	5600	C183	C161 Brakes (FB)	C172	C019	C133	C045	C107	C225
TASKS	OBJECT	CAUTION/WARNING/ Advisory Display (2)	RTN Key (2)	Park Brake	Radios	ASE Key	MASTER Key	Communication (Crewchief) C045 Communication (UC)	HSD Key (2)	VSD Key (1)
	VERB	Check	Press	Check	Check	Press	Press	Receive	Press	Press

TOTAL TIME (Approximate)

MH-60K FUNCTION ANALYSIS WORKSHEET	
	Perform Before Taxi Check
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	FUNCTION

DURATION SECONDS)	RETE/									
DUR	DISCRETE/ CONTINUOUS	٠,	rò	٠. بئ	тú	ო	ო	-	-	
	SWITCH DESCRIPTION	Softkey	Softkey	Softkey	Softkey	Springloaded Toggle - 3 Positions (SPT-3)				
1.8	PSYCHOMOTOR	Press Soffkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Switch and Speak P-2.2		Push Toe Brakes P-2.2		
OAD COMPONENTS	COGNITIVE	Verify Correct Status C-1.2	Verify Correct Status G-1.2	Verify Correct Status C-1.2	Verify Correct Status G-1.2	Encode Message (Crew Secure) C-5.3	Decode Message C-5.3	Decide and Verify Correct Position (Unlocked) C-1.2	Verify Correct Status (Extinguished) C-1.2	
WORKLOAD	SENSORY	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Receive Speech Feedback	Receive Auditory Message A-4.9	Feel Brake Position K-1	Visually Register Light V-1	
	SUBSYSTEM(S)	C195 Multifunction Display (MFD)	C039 Multifunction Display (MFD)	C186 Multifunction Display (MFD)	C092 Multifunction Display (MFD)	P052 Communication (UC)	Communication (UC)	Brakes (FB)	C163 Advisory (UAD)	
	TASK #	C195	6600	C186	C092	P052	P045	P162	C163	
TASKS	OBJECT	SYST Key (1)	CHECK LISTS Key (1)	SEQ Key (1)	GET LIST Key (1)	Crew	Communication (Crewchief) P045 Communication (UC)	Park Brake	Park Brake Light	
	VERB	Press	Press	Press	Press	Снеск	Receive	Release	Check	

TOTAL TIME (Approximate)

Perform Cockpit Communication (Copilot) (Coordination)

TION ONDS)	ETE/ IUOUS								
DURATION (SECONDS)	DISCRETE/ CONTINUOUS	ဧ	ო	ო	ო		-		
	SWITCH DESCRIPTION	Springloaded Press - 2 Positions (SP-2)		Springloaded Trigger (SPTR)					
S L	PSYCHOMOTOR			Pull Trigger and Speak P-2.2					
OAD COMPONENTS	COGNITIVE	Encode Message C-5.3	Decode Message C-5,3		Decode Message C-5.3				
WORKLO	SENSORY	Receive Speech Feedback/ Encode Message Feel Floor Switch A-4.3/K-1	Receive Auditory Message	Receive Speech Feedback Encode Message C-5.3	Receive Auditory Message 8-4.9				
	SUBSYSTEM(S)	C043 Communication (UC)	Communication (UC)	P049 Communication (UC)	C041 Communication (UC)				
	TASK #	C043	P047	P049	C041				
TASKS	OBJECT	Communication (Copilot)	Communication (Pilot)	Communication (Pilot)	Communication (Copilot)				
	VERB	Transmit	Receive	Transmit	Receive G-61				

TOTAL TIME (Approximate)

FUNCTION 48 Perform Cockpit Communication (Copilot) (Normal)

NOIT (SQN	ETE/ UOUS				,	······································
DURATION (SECONDS)	DISCRETE/ CONTINUOUS	2	N	N N	α	
	SWITCH DESCRIPTION	Springloaded Press - 2 Positions (SP-2)		Springloaded Trigger (SPTR)	- 1	
ENTS	PSYCHOMOTOR			Pull Trigger and Speak P-2.2		
OAD COMPON	COGNITIVE	Make Conditioned Association C-1	Make Conditioned Association G-1	Make Conditioned Association C-1	Make Conditioned Association C-1	
WORKL	SENSORY	Receive Speech Feedback/ Make Conditioned Feel Floor Switch Association A-4.3/K-1 C-1	Receive Auditory Message 14-4.9	Receive Speech Feedback	Receive Auditory Message A-4.9	
	SUBSYSTEM(S)	C044 Communication (UC)	P048 Communication (UC)	P050 Communication (UC)	C042 Communication (UC)	
	TASK *	C044	P048	P050	C042	
TASKS	OBJECT	Communication (Copilot) (Normal)	Communication (Pilot) (Normal)	Communication (Pilot) (Normal)	Communication (Copilot) (Normal)	
	VERB	Transmit	Receive	Transmit	Receive	

TOTAL TIME (Approximate)

(Coordination)
munication (Pilot)
orm Cockpit Com
l 49 Perfe
FUNCTION

DURATION (SECONDS)	DISCRETE/ CONTINUOUS					 			
DUR (SECK	DISCI	8	က	က	က				
	SWITCH DESCRIPTION	Springloaded Trigger (SPTR)		Springloaded Press - 2 Positions (SP-2)				·	
18	PSYCHOMOTOR	Pull Trigger and Speak P-2.2							
OAD COMPONEN	COGNITIVE	Encode Message C-5.3	Decode Message C-5.3	Encode Message C-5.3	Decode Message C-5.3				
WORKL	SENSORY	Receive Speech Feedback A-4.3	Receive Auditory Message A-4.9	Receive Speech Feedback/ Encode Message Feel Floor Switch A-4.3/K-1	Receive Auditory Message A-4.9				
	SUBSYSTEM(S)	P049 Communication (UC)	C041 Communication (UC)	C043 Communication (UC)	P047 Communication (UC)				
	TASK *	P049	C041	C043	P047				
TASKS	OBJECT	Communication (Pilot)	Communication (Copilot)	Communication (Copilot)	Communication (Pilot)				
	VERB	Transmit	Receive	Transmit	Receive	 	 	_	

TOTAL TIME (Approximate)

FUNCTION 50 Perform Cockpit Communication (Pilot) (Normal)

DURATION (SECONDS)	DISCRETE/ CONTINUOUS				
DUR	DISC	2	ο.	N	N
	SWITCH DESCRIPTION	Springloaded Trigger (SPTR)		Springloaded Press - 2 Positions (SP-2)	
ENTS	PSYCHOMOTOR	Pull Trigger and Speak P-2.2			
DCOMPON	COGNITIVE	Make Conditioned Association C-1	Make Conditioned Association C-1	Make Conditioned Association C-1	Make Conditioned Association C-1
WORKLOA	SENSORY	Receive Speech Feedback A-4.3	Receive Auditory Message A-4.9	Receive Speech Feedback/ Make Conditioned Feel Floor Switch Association A-4.3/K-1 C-1	Receive Auditory Message A-4.9
	SUBSYSTEM(S)	P050 Communication (UC)	C042 Communication (UC)	C044 Communication (UC)	P048 Communication (UC)
	TASK #	P050	C042	C044	P048
TASKS	овлест	Communication (Pilot) (Normal)	Communication (Copilot) (Normal)	Communication (Copilot) (Normal)	Communication (Pilot)
	VERB	Transmit	Receive	Transmit	Receive

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION	51 Perform External Communication (ATHS)	munica	tion (ATHS)			TOTAL	TOTAL TIME (Approximate)		20.5 Seconds
	TASKS			WORKLOAD	LOAD COMPONENTS	TS		DUPATION (SECONDS)	TION NDS)
VERB	овлест	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	ETE/ UOUS
Press	SYST Key (1)	C195	Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	S.	
Press	ATHS MENU Key (1)	C020	Communication/ Visually Locate Key Multifunction Display V-3.7 (UC/MFD)		Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	rc.	
Press	SEQ MSG Key (1)	C187	Communication/ Visually Locate Key Multifunction Display V-3.7 (UC/MFD)		Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	ν _.	•
Enter	Message	C134	C134 Communication/ Control Display Unit (CDU/MFD)	Visually Locate Keys V-3.7	Encode Message C-5.3	Туре Епту Р-2.2	Softkey	15	
Press	Enter Key	C064	C064 Control Display Unit (CDU)	Visually Locate Key V-3.7	Verify Key Selected C-1.2	Press Softkey P-2.2	Softkey	ιĊ	<u>-</u>
Press	XMIT MSG Key (1)	C229	Communication/ Control Display Unit (UC/CDU)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιν.	
·									

22.5 Seconds

TOTAL TIME (Approximate)

MH-60K FUNCTION ANALYSIS WORKSHEET

Perform External Communication (Frequency Change)

	SWITCH DISCRETE/ DESCRIPTION CONTINUOUS	. S	. 5	ιņ	N	ις	ro,	Springloaded 4 (SP)	8
118	PSYCHOMOTOR	Press Soffkey Soffkey P-2.2	Press Softkey Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Switch and Speak Sprir P-2.2 (SP)	
LOAD COMPONEN	COGNITIVE	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Encode Message C-5.3	Make Conditioned Association
WORKL	SENSORY	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Receive Speech Feedback A-4.3	Receive Auditory Message A-4.9
	SUBSYSTEM(S)	Communication/ Multifunction Display (UC/MFD)	C214 Communication/ Multifunction Display (UC/MFD)	Communication/ Multifunction Display (UC/MFD)	C185 Communication/ Multifunction Display (UC/MFD)	C210 Communication/ Multifunction Display (UC/MFD)	C183 Multifunction Display (MFD)	C140 Communication (UC)	C002 Communication (UC)
	TASK *	C040	C214	C215	C185	C210	C183	C140	C002
TASKS	овлест	COMM Key (1)	UHF COMM Key (1)	UHF LIST Key (1)	SEQ CHAN Key (1)	TUNE UHF 1 Key (1)	RTN Key (1)	Message (Brief)	Acknowledgment
	VERB	Press	Press	Press	Press	Press	Press	Transmit	Receive

FUNCTION 52 Perform External Communication (Frequency Change) [Continued]

DURATION (SECONDS)	DISCRETE/ CONTINUOUS							
DUR (SECK	DISCE	4	N					
	SWITCH DESCRIPTION	Springloaded (SP)		 	 	 		
1.8	PSYCHOMOTOR	Press Switch and Speak P-2.2						
OAD COMPONENTS	COGNITIVE	Encode Message C-5.3	Make Conditioned Association C-1					
WORKL	SENSORY	Receive Speech Feedback A-4.3	Receive Auditory Message A-4.9					
	SUBSYSTEM(S)	C140 Communication (UC)	C002 Communication (UC)					
	TASK #	C140	C002		 	 		
TASKS	овлест	Message (Brief)	Acknowledgment					
	VERB	Transmit	Receive	 	 	 	- .	

TOTAL TIME (Approximate)

Perform External Communication (Receive Coordination)

DURATION (SECONDS)	DISCRETE/ CONTINUOUS					
DUR (SECC	DISCE	5	8	ى د	N	
	SWITCH DESCRIPTION		Springloaded Press - 2 Positions (SP-2)		Springloaded Press - 2 Positions (SP-2)	
ITS	PSYCHOMOTOR		Press Switch and Speak P-2.2		Press Switch and Speak	
LOAD COMPONEN	COGNITIVE	Decode Message C-5.3	Encode Message C-5.3	Decode Message C-5.3	C-5.3	
WORKLOAD	SENSORY	Receive Auditory Message A-4.9	Receive Speech Feedback A-4.3	Receive Auditory Message A-4.9	Receive Speech Feedback A-4.3	
	SUBSYSTEM(S)	Communication (UC)	C003 Communication (UC)	C136 Communication (UC)	C003 Communication (UC)	
	TASK *	C139	C003	C136	E0003	
TASKS	OBJECT	Message Alert	Acknowledgment	Message	Acknowledgment	
	VERB	Receive	Transmit	Receive	Transmit	

TOTAL TIME (Approximate)

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DURATION	(ETE/					 		
DURA	(SECONDS) DISCRETE/ CONTINUOUS	ო	8	ιΩ	8			
	SWITCH	Springloaded Press - 2 Positions (SP-2)		Springloaded Press - 2 Positions (SP-2)		 	 	
18	PSYCHOMOTOR	Press Switch and Speak P-2.2		Press Switch and Speak P-2.2	_	-		
LOAD COMPONENTS	COGNITIVE	Make Conditioned Association C-1	Make Conditioned Association C-1	Make Conditioned Association C-1	Make Conditioned Association C-1			
WORKLOAD	SENSORY	Receive Speech Feedback A-4.3	Receive Auditory Message A-4.9	Receive Speech Feedback A-4.3	Receive Auditory Message A-4.3			
	SUBSYSTEM(S)	Communication (UC)	C002 Communication (UC)	Communication (UC)	C002 Communication (UC)			
	TASK *	C137	C002	C137	C002	 		
TASKS	OBJECT	Message	Acknowledgment	Message	Acknowledgment		 	
	VERB	Transmit	Receive	Transmit	Receive	 	 	

Perform Hover Check [NVG]	
erform Hover Check [M	
	erform Hover Check [M
	FUNCTION

55 Perform Hover Check [NVG]	[MG]	L				TOTAL	TOTAL TIME (Approximate)		34 Seconds*
TASKS				WORKLO	LOAD COMPONEN	٦.		DURATION (SECONDS)	NON NDS)
OBJECT TASK ** SUBSYSTEM(S) SEN	SUBSYSTEM(S) S	SUBSYSTEM(S) S	SEN	ENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	ETE/ JOUS
Altitude [NVG] P016 Flight Control Fee (FC)			Feel K-7	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-	
Attitude [NVG] P023 Flight Control Feel (FC)			Fed 7-7	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		<u>-</u>	
Heading [NVG] P102 Flight Control Feel (FC) K-7			Fee K-7	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-	
Drift [NVG] P060 Flight Control Feel (FC)			K-7	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-	
Obstacle Clearance [NVG] P159 Flight Control/Night Feel Visua (FC/VG) (FC/VG) K-7/C	Flight Control/Night Vision Goggles (FC/VG)	Flight Control/Night Vision Goggles (FC/VG)	Feel Visua K-7/C	Feel Control Movements/ Visually Orient Aircraft K-7/G-5	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-	
Obstacle Clearance [NVG] C158 Night Vision Goggles Visually Register Obstacles (VG)	C158 Night Vision Goggles Visua (VG)	Night Vision Goggles Visua (VG)	Visua G-1		Make Conditioned Association (Aircraft Clear) C-1			ო	
INST Key (4) P116 Multifunction Display Visually Locate Key (MFD) V-3.7	P116 Multifunction Display Visus (MFD)	Multifunction Display Visua (MFD) V-3.7	Visuz V-3.7		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ro.	
Flight Controls (Hover) P070 Night Vision Goggles Visually Detect Aircraft [NVG] Movement G-1	P070 Night Vision Goggles Visu (VG) G-1	Night Vision Goggles Visu (VG) G-1	Visu Mov G-1		Verify Correct Status (Correct Control Response) C-3.7			10	

*Since some of the tasks are performed concurrently, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 55 Perform Hover Check [NVG] [Continued]

DURATION (SECONDS)	DISCRETE/ CONTINUOUS				
DUR	DISCE	S	10	ις	ις.
	SWITCH DESCRIPTION				Softkey
1.8	PSYCHOMOTOR				Press Softkey
OAD COMPONENT	COGNITIVE	Inspect Sensory and Symbolic Readouts and Verify Correct Status (Readouts Within Limits) C-3.7	Inspect Sensory and Symbolic Readouts and Verify Correct Status (Correct Response) C-3.7	Interpret Sensory and Symbolic Readouts (Note Torque and N1) C-3.7	Verify Correct Status
WORKLOAD	SENSORY	Engine/Multifunction Visually Scan Indications Display (EN/MFD)	Visually Scan Symbology V-7	Visually Check Instrument Indications V-4	Visually Locate Key V-3.7
	SUBSYSTEM(S)	Engine/Multifunction Display (EN/MFD)	ANVIS Symbology/ Multifunction Display (ANV/MFD)	Engine (EN)	P107 Multifunction Display (MFD)
	TASK #	P063	P074	P165	P107
TASKS	OBJECT	Engine Indications (Hover)	Flight Symbokgy (Hover)	Power Check (Hover)	HSD Key (4)
	VERB	Check	Check	Perform	Press S

TOTAL TIME (Approximate) 220 Seconds*

Perform Hover [NVG] FUNCTION 56

					;			ļ	[
	TASKS			WORKLOAD	LOAD COMPONENTS	TS		DURATION (SECONDS)	NON NDS)
	овлест	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	ETE/ Jous
Control	Altiude [NVG]	P016	Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-	
Control	Attinde [NVG]	P023	Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-	
Control	Heading [NVG]	P102	Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-	
Control	Drift [NVG]	P060	Flight Control (FC)	Feel Control Movements K-7	Make Conditioned Association (Adjustment Needed)	Control Pressure P-2.6		-	
Maintain	Obstacle Clearance [NVG]	P159	P159 Flight Contro/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Orient Aircraft K-7/G-5	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		-	·
Сћеск	Obstacle Clearance [NVG]	C 158	Night Vision Goggles (VG)	C 158 Night Vision Goggles Visually Register Obstacles (VG)	Make Conditioned Association (Aircraft Clear) C-1			m	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION	57 Perform IFF Procedures	8		•		TOTAL	TOTAL TIME (Approximate)	10.5 Seconds
	TASKS			WORKLOAD	LOAD COMPONENTS	15		DUPATION (SECONDS)
VERB	OBJECT	TASK *	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH	DISCRETE
Press	IFF Key (1)	C110	Multifunction Usually Locate Key Display/Transponrer V-3.7 (MFD/TP)		Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	rύ
Press	IFF MODE Key (1)	C111	Multifunction Display/Transponder V-3.7 (MFD/TP)		Verity Correct Status C-1.2	Press Softkey P-2.2	Softkey	κύ
Check	IFF Code	C109	Control Display Unit/ Transponder (CDU/TP)	Idout	Interpret Sensory and Symbolic Readout and Verify Correct Status (Correct Code)			ιo
Press	IFF NORMSTBY Key (1)	C112	C112 Multifunction Visually Locate Key Display/Transponder V-3.7 (MFD/TP)		Verify Correct Status (NORM) C-1.2	Press Soffkey P-2.2	Softkey	ν,
Press	BCN OPER Key (1)	C027	Multifunction Display/Transponder V-3.7 (MFD/TP)		Verity Correct Status C-1.2	Press Softkey P-2.2	Softkey	ro.
Press	RTN Key (1)	C183	C183 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ĸ,
								*

Continuous*	DURATION (SECONDS)	RETE/ NOUS							
	DURATION (SECONDS)	DISCRETE/ CONTINUOUS	80	10	ĸ.	ю	10		
TOTAL TIME (Approximate)		SWITCH DESCRIPTION							
TOTAL	TS	PSYCHOMOTOR							
	LOAD COMPONENTS	COGNITIVE	Interpret Sensory Feedback and Make Judgment C-6.8	Interpret Sensory Feedback and Make Judgment (Adjustment Needed) C-6.8	Verify Correct Heading C-1.2	Verify Correct Status (On Course) C-1.2	Interpret Sensory Feedback and Make Judgment (Adjustment Needed) C-6.8		
	WORKLOAD	SENSORY	Visually Discriminate Terrain V-3.7	Visually Search External Field of View G-7	Read Heading Indicator V-5.9	Visually Discriminate Symbolic Display V-3.7	Visually Search FLIR Image V-7		
		SUBSYSTEM(S)	Maps/Multifunction Display (NMMFD)	C072 Night Vision Goggles (VG)	C098 Multifunction Display (MFD)	C051 Multifunction Display (MFD)	Forward-Looking Infrared (FLIR) (FLR)		
NVG]		TASK #	C130	C072	8600	C051	C071	 	
58 Perform Navigation [NVG]	TASKS	OBJECT	Map Features	Flight Path [NVG]	Heading	Course Display	Flight Path (FLIR) (1)	 	
FUNCTION		VERB	Interpret	Verify	Check	G-74	Verify		

*The total time for the function will vary depending on the length of the segment.

17.5 Seconds

TOTAL TIME (Approximate)

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 59 Perform Navigation (RADAR)

	VERB	Press	Venify	Press	G-75
TASKS	ОВЈЕСТ	RADAR Key (1)	Flight Path (RADAR)	FLIR Key (1)	
	TASK *	C171	C073	C077	
	SUBSYSTEM(S)	C171 Multifunction Display (MFD)	C073 RADAR (NRA)	C077 Multifunction Display (MFD)	
WORKLOAD	SENSORY	Visually Locate Key V-3.7	Visually Scan Sensor Image V-7	Visually Locate Key V-3.7	
LOAD COMPONENTS	COGNITIVE	Verify Correct Status C-1.2	Interpret Sensory Feedback and Make Judgment (Adjustment Needed) C-6.8	Verify Correct Status C-1.2	
18	PSYCHOMOTOR	Press Softkey P-2.2		Press Softkey P-2.2	
	SWITCH DESCRIPTION				
DURATION	DISCRETE/ CONTINUOUS	ιο	ر د	ις	

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION	60 Perform Rendezvous Check	Check				TOTAL	TOTAL TIME (Approximate)	7.5 Seconds
	TASKS			WORKLO	LOAD COMPONENTS	TS		DURATION (SECONDS)
VERB	OBJECT	TASK *	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS
Press	NAV AIDS Key (1)	C149	C149 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ro,
Press	TCN BRG Key (1)	C202	C202 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	ιύ
Press	TCN A/AR Key (1)	C201	C201 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	ro.
75 C-76	TACAN Channel	C197	C197 Control Display Unit	Visually Check Symbolic Indications V-4	Interpret Sensory and Symbolic Readout and Verity Correct Status (Channel Correct) C-3.7			ო
Press	RTN Key (1)	C183	C183 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ro.

FUNCTION	61 Perform Rendezvous [NVG]	[NVG]				TOTAL	TOTAL TIME (Approximate)	62.5 Seconds	5
	TASKS			WORKLOAD	LOAD COMPONENTS	TS		DURATION (SECONDS)	
VERB	овлест	TASK *	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	(n
Press	SYST Key (1)	C195	C195 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ro.	
Press	CHECK LISTS Key (1)	6600	C039 Multifunction Display Visually Locate Key (MFD)		Verity Correct Status C-1.2	Press Softkey P-2.2	Softkey	ro.	
Press	SEQ Key (1)	C186	C186 Multifunction Display Visually Locate Key (MFD)		Verity Correct Status C-1.2	Press Softkey P-2.2	Softkey	ις.	
Press	GET LIST Key (1)	C092	C092 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	rv.	
Set	Lights	C123	Lighting (UL)	Visually Check Switch Positions and Placement of Switches	Decide Desired Position C-1.2	Move Switches P-2.2		ω	
Set	Refuel Panel	C177 Fuel (EF)		Visually Check Switch Positions and Placement of Switches	Decide Desired Position C-1.2	Move Switches P-2.2		0	
Press	VSD Key (1)	C225	C225 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ινί	
Locate	Tanker [NVG]	B200	B200 Night Vision Goggles Visually Detect Image (VG)		Evaluate Sensory Information and Make Judgment (Tanker) C-4.6			0	

TOTAL TIME (Approximate) 180.5 Seconds*

FUNCTION 62 Perform Taxi [NVG]

		TASKS			WORK	WORKLOAD COMPONENTS	118		DURATION (SECONDS)	NO DS)
VERB		OBJECT	TASK *	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	OUS
Control		Forward Motion (Taxi) [NVG]	P081	Brakes/Flight Control (FB/FC)	P081 Brakes/Flight Control Feel Pedal Movements (FB/FC)	Make Conditioned Association (Adjustment Needed) C-1	Press Toe Brakes P-2.6		بن.	1
Control		Heading (Taxi) [NVG]	P103	P103 Gear/Flight Control (FG/FC)	Feel Pedal Movements K-7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		ιν̈́	
Maintain	· · · · · · · · · · · · · · · · · · ·	Obstacle Clearance [NVG]	P159	P159 Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Orient Aircraft K-7/G-5	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		ĸ.	
G-78		Obstade Clearance [NVG]	C158	Night Vision Goggles (VG)	C158 Night Vision Goggles Visually Register Obstacles Make Conditioned (VG) G-1 C-1	Make Conditioned Association (Aircraft Clear) C-1			m	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

TOTAL TIME (Approximate) 24.5 Seconds

Perform Taxiing Check

- ASKS			WORKLOAD	LOAD COMPONEN	18		DURATION	_
OBJECT	TASK #	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	(SECONDS) DISCRETE/ CONTINUOUS	
Brakes (Pilot)	P032	P032 Brakes (FB)	Feel Control Movement and Verify Correct Status Feel Brake Position K-7	Venity Correct Status C-1.2	Press Toe Brakes P-2.2		y.	
Brakes (Copilot)	C031	C031 Brakes (FB)	Feel Brake Position K-1	Venity Correct Status C-1.2	Press Toe Brakes P-2.2		က	
TAILWHEEL Switch	C 199 Gear (FG)		Visually Locate Switch	Decide Correct Position (Unlock) C-1.2	Press Switch P-2.2	Springloaded Press (SP)	ψ-	
Tailwheel Advisory Light	C198	C198 Advisory (UAD)	Visually Register Light	Verify Correct Status C-1.2				
Steering	P192 Gear (FG)		Feel Pedal Movement/ Visually Detect Aircraft Movement G-1	Verify Correct Status C-1.2	Control Pressure P-2.6		0	

FUNCTION 64 Program Transponder

7 Seconds

TOTAL TIME (Approximate)

DURATION	DISCRETE/ CONTINUOUS									
DUE	CONT	S.		ى. ———		rů.	٠ <u>٠</u>	ىن. 		
	SWITCH	Softkey	Softkey	Softkey	Softkey	Softkey	Softkey	Softkey		
18	PSYCHOMOTOR	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2		
OAD COMPONEN	COGNITIVE	Verify Correct Status C-1.2	Verify Correct Status (ON) C-1.2	Verify Correct Status (ON) C-1.2	Verify Correct Status (ON) C-1,2	Verify Correct Status (ON) C-1.2	Verify Correct Status (STBY) Press Softkey C-1.2	Verity Correct Status C-1.2		
WORKLO	SENSORY	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7		
	SUBSYSTEM(S)	Transponder/ Multifunction Display (TP/MFD)	C143 Multifunction Display (MFD)	C145 Multifunction Display (MFD)	C146 Multifunction Display (MFD)	C144 Multifunction Display (MFD)	C112 Multifunction Display (MFD)	C183 Multifunction Display (MFD)		
	TASK #	C110	C143	C145	C146	C144	C112	C183		
TASKS	OBJECT	IFF Key (2)	MODE 1 Key (2)	MODE 3A Key (2)	MODE C Key (2)	MODE 2 Key (2)	IFF NORMSTBY Key (2)	RTN Key (2)		
	VERB	Press	Press	Press	Press	Press	Press	Press	-	 -

Respond to Threat [NVG]

65

FUNCTION

60 Seconds*

TOTAL TIME (Approximate)

DURATION (SECONDS) DISCRETE/ CONTINUOUS 'n ß ĸ, S. 30 Springloaded Press (SP) DESCRIPTION SWITCH Softkey Softkey Softkey Softkey **PSYCHOMOTOR** Control Pressure P-2.6 Press Softkey P-2.2 Press Softkey P-2.2 Press Softkey P-2.2 Press Softkey P-2.2 Type Entry P.7 COMPONENTS Make Conditioned Association (Adjus...nent Needed) C-1 Verify Correct Status (On) C-1.2 Recognize Visual Signal (Threat Direction) C-3.7 verify Correct Status C-1.2 Verify Correct Status C-1.2 Verify Correct Status C-1.2 Verify Correct Status C-1.2 Encode Data C-5.3 COGNITIVE WORKLOAD Detect Audio Difference/ Detect Visual Image A-6.6/V-1 Feel Control Movements/ Visually Orient Aircraft K-7/G-5 Visually Locate Keys on Keypad V-3.7 Visually Check Status V-3.7 C183 | Multifunction Display | Visually Locate Key (MFD) Visually Locate Key V-3.7 C193 | Multifunction Display | Visually Locate Key (MFD) | V-3.7 C079 | Multifunction Display | Visually Locate Key | (MFD) SENSORY Survivability/Control V Display Unit (US/CDU) Flight Control/Night | Flight Control/Night | Flight Control | Vision Goggles | FC/VG) C132 Survivability/ Multifuncion Display (US/MFD) Control Display Unit SUBSYSTEM(S) Survivability (US) (con) C205 C019 P096 TASK B204 FLY OVER STR Key (1) Threat Information Hard Turns [NVG] MASTER Key STR Key (1) RT.; Key (1) TASKS **ASE Key** OBJECT Threat Perform VERB Detect Check Press Press Press Press Enter

Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 65 Respond to Threat [NVG] [Continued]

DURATION (SECONDS)	ETE/ IJOUS				· · · · · · · · · · · · · · · · · · ·			
DURA (SECC	DISCRETE/ CONTINUOUS	4	4					
	SWITCH DESCRIPTION							
	PSYCHOMOTOR	Control Pressure P-2.6	Control Pressure P-2.6					
OAD COMPONENTS	COGNITIVE	Make Conditioned Association (Adjustment Needed) C-1	Make Conditioned Association (Adjustment Needed) C-1					
WORKLOAD	SENSORY	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-5	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-5					
	SUBSYSTEM(S)	Flight Control/Night Vision Goggles (FC/VG)	Flight Control/Night Vision Goggles (FC/VG)					
	TASK #	P017	P012	 	 		w	_
TASKS	OBJECT	Altitude Sharply [NVG]	Airspeed Quickly [NVG]	 		 		
	VERB	Change	Change	 		 		

TASK S TASK OBJECT *							
		WORKL	LOAD COMPONEN	TS		DURATION (SECONDS	NOI (SQI
	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	TE/ IOUS
	Communication/ Multifunction Display (UC/MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ıŭ	
VHF 2 Key (2) C222	C222 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status (Sec) C-1.2	Press Softkey P-2.2	Softkey	ιύ	
SOL Key (2) C190	C190 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status (On) C-1.2	Press Softkey P-2.2	Softkey	ιν̈́	
VHF 1 Key (2) C221	C221 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status (Sec) C-1.2	Press Softkey P-2.2	Softkey	rů.	
SQL Key (2) C190	C190 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status (On) C-1.2	Press Softkey P-2.2	Softkey	πċ	<u></u>
VHF LIST Key (2) C223	C223 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	κi	
CHAN Key (2) C036	C038 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιύ	
TUNE VHF 1 Key (2) C211	C211 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ب ې	

FUNCTION 66 Set Up Communication Radios (Continued)

DURATION (SECONDS)	DISCRETE/ CONTINUOUS									
DO SE	CONT	ις.	ν.	<u> </u>	<u>.</u>	τύ.	<u>.</u>	ىز. 	ν. -	
	SWITCH DESCRIPTION	Softkey	Softkey	Softkey	Softkey	Softkey	Softkey	Softkey	Softkey	
118	PSYCHOMOTOR	Press Soffkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	
LOAD COMPONENT	COGNITIVE	Verify Correct Status C-1.2	Verify Correct Status G-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	Verify Correct Status C-1.2	
WORKLOA	SENSORY	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Locate Key V-3.7					
	SUBSYSTEM(S)	C038 Multifunction Display (MFD)	C212 Multifunction Display (MFD)	C104 Multifunction Display (MFD)	C105 Multifunction Display (MFD)	C038 Multifunction Display (MFD)	C209 Multifunction Display (MFD)	C214 Communication/ Multifunction Display (UC/MFD)	C215 Multifunction Display (MFD)	
_	TASK #	C038	C212	C104	C105	C038	C209	C214	C215	
TASKS	овлест	CHAN Key (2)	TUNE VHF 2 Key (2)	HF COMM Key (2)	HF LIST Key (2)	CHAN Key (2)	TUNE HF Key (2)	UHF COMM Key (2)	UHF LIST Key (2)	
	VERB	Press	Press	Press	Press	Press	Press	Press	Press	

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 66 Set Up Communication Radios [Continued]

NOIT	ETE/ IUOUS					 			-	
DURA	(SECONDS) DISCRETE/ CONTINUOUS	rò	κύ	ro	ιν				-	
	SWITCH DESCRIPTION	Softkey	Softkey	Softkey	Softkey					
18	PSYCHOMOTOR	Press Sottkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2	Press Softkey P-2.2					
LOAD COMPONENTS	COGNITIVE	Verity Correct Status C-1.2	Verify Correct Status G-1.2	Verify Correct Status (Sec)	Verify Correct Status C-1.2					
WORKLOAD	SENSORY			Visually Locate Key V-3.7						
	SUBSYSTEM(S)	C038 Multifunction Display Visually Locate Key (MFD)	C210 Multifunction Display Visually Locate Key (MFD)	C184 Multifunction Display (MFD)	C183 Multifunction Display Visually Locate Key (MFD)			_		
	TASK	C038	C210	C184	C183					
TASKS	OBJECT	CHAN Key (2)	TUNE UHF 1 Key (2)	SEC Key (2)	RTN Key (2)					
	VERB	Press	Press	Press	Pæss					

21 Seconds

67 Unio	Unload Aircraft (Internal) K S	a L		WORKLOAD	OAD COMPONENTS		TOTAL TIME (Approximate)	21 Secon	21 Seconds URATION FCONDS:
OBJECT	-	TASK	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	ETE/ IUOUS
Unloading		C216	C216 Cargo (UCA)	Visually Scan Cargo Compartment V-7	Verify Correct Procedure C-1.2	Move Head P-2.6		10	
Unloa	Unloading Complete	C217	C217 Communication (UC)	Receive Auditory Message A-4.9	Decode Message C-5.3			б	
Comm	Communication (Crewchief) C046 Communication (UC)	C046		Receive Speech Feedback A-4.3	Encode Message (Door Check) C-5.3	Press Switch and Speak P-2.2	Springloaded Press - 2 Positions (SP-2)	ю	
Comm	Communication (Crewchief)	C045	C045 Communication (UC)	Receive Auditory Message A-4.9	Decode Message C-5.3			ო	
							-		

MH-60K FUNCTION ANALYSIS WORKSHEET

	68 Update Navigation (FLIR)	Œ	·			TOTAL	TOTAL TIME (Approximate)	21.5 Seconds
	TASKS			WORKLOAD	DAD COMPONENTS			DURATION (SECONDS)
VERB	OBJECT	TASK	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS
Press	FLIR Key (2)	2002	Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Touch Softkey P-2.2	Softkey	rΰ
Press	PT Key (2)	0169	Multifunction Display (MFD)	Visually Locate Key	Verify Correct Status C-1.2	Touch Softkey P-2.2	Softkey	ν _.
Press	UPD Key (2)	C218	Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Touch Softkey P-2.2	Softkey	ro.
Press	SLEW Key (2)	C188	Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Touch Softkey P-2.2	Softkey	ro.
Set	FOV Scale Switch (2)	C084	Multifunction Display/Forward- Looking Infrared (MFD/FLR)	Feel Switch Movement/ Visually Detect Sensor Images K-1/V-1	Decide Correct Position and Verify Correct Image 6-1.2	Move Switch P-2.2	Slide - 2 Positions	-
Identify	Landmark (FLIR)	C117	C117 Maps/Multifunction V Display (NM/MFD)	Visually Discriminate Terrain V-3.7	Interpret Sensory Feedback and Make Judgment C-6.8			w
Slew	Update Cursor	C219	Multimode Controller/ Multifunction Display (MC/MED)	Multimode Feel Switch Movement/ Controller/ Visually Align Symbol Multifunction Display K-6.7/V-5.0 (MC/MFD)	Verify Symbol Position R Correct C-1.2	Manipulate Thumbwheel P-4	Springloaded Center Thumbwheel - 5 Positions	4
lind.	Mode Trigger	C147	Multimode Controller	(MC) K-1 K-1	Verify Correct Position (Second Detent) C-1.2	Pull Trigger P-2.2		ω

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 68 Update Navigation (FLIR) [Continued]

			WORKLOAD	DAD COMPONENTS	S		DURATION (SECONDS)
	TASK	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS
	C148	Multimode Controller (MC)	C148 Multimode Controller Feel Trigger Movement (MC)	Verify Correct Position C-1.2	Release Trigger P-2.2		ιν̈́
SNSR UPD Key (2)	C189	C189 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	rΰ
	C001	C001 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	rύ
	C183	C183 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	rύ
	C131	C131 Multifunction Display Visually Locate Key (MFD)	·	Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	رن
<u></u>							

Update Navigation (LZ)

69

FUNCTION

9.5 Seconds

TOTAL TIME (Approximate) 132.5 Seconds*

FUNCTION 70 Update Navigation (Mission Change)

*Time required to establish three waypoints.

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 70 Update Navigation (Mission Change) [Continued]

TASK SENSORY TASK SENSORY COOKITIVE PSYCHOMOTOR DESIGNATION PSYCHOMOTOR PSYCHOMOTOR DESIGNATION PSYCHOMOTOR PSYCHOMOTO		TASKS			WORKLOAD	DAD COMPONENTS			DURATION
Mode Trigger C C148 Multimode Controller Feel Trigger Movement (May) Number C152 Control Display Unit Yesuelly Locate Keys and Control C158 Control Display Unit Visually Locate Keys and Control C159 Control Display Unit Visually Locate Keys and Control C158 Control Display Unit Visually Locate Keys and Control C158 Control Display Unit Visually Locate Keys and Control C158 Control Display Unit Visually Locate Keys and Control C158 Maps Multitunction Display (Visually Locate Keys and Control C158 Maps Multitunction Visually Locate Keys and Control C158 Maps Multitunction Visually Locate Keys and Control C158 Maps Multitunction Visually Discriminate Interpret Sensory Feedback C158 Maps Multitunction Visually Align Symbol C158 Maps Multitunction Display K-6.71V-5.0 C1.2 C1.2 C1.2 C1.2 Multitunction Display K-6.71V-5.0 C1.2 C1.2 C1.2 Multitunction Display K-6.71V-5.0 C1.2 C1.2 C1.2 Multitunction Display K-6.71V-5.0 C1.2 C1.2 C1.2 C1.2 Multitunction Display K-6.71V-5.0 C1.2 C1.2 C1.2 Multitunction Display K-6.71V-5.0 C1.2 C1.2 C1.2 Multitunction Display K-6.71V-5.0 C1.2 Multitunction Display K-6.71V-5.0 C1.2 C1.2 Multitunction Display K-6.71V-5.0 C1.2 Mu	VERB	OBJECT	TASK #				PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/
NRP Deta C152 Control Display Unit Visually Locate Keys and Correct Entry P-2.2 STR NRP Deta C156 Coverol Display Unit Visually Locate Keys and Covered Entry P-2.2 STR NRP Key (2) C194 Multifunction Display Visually Locate Keys and Covered Entry P-2.2 Map Display (2) C128 Maps/Multifunction Visually Locate Keys and Make Judgment (MeD) Landmark (Mep) C118 Maps/Multifunction Visually Discriminate Interpret Sensory Feedback and Make Judgment (NaMMFD) Landmark (Mep) C118 Multifunction Visually Discriminate Interpret Sensory Feedback and Make Judgment (NaMMFD) Mode Trigger C117 Multifunction Display (Feel Switch Movement) Visually Alia Symbol Correct Position P-2.2 Landmark (Mep) C118 Multifunction Display (Visually Alia Symbol Correct Position P-2.2 Landmark (Mep) C118 Multifunction Display (Visually Alia Symbol Correct Position P-4.2 C118 Multifunction Display (Visually Alia Symbol Correct Position P-2.2 Multifunction Display (C11) M	Release	Mode Trigger			Trigger Movement		Release Trigger P-2.2		ις.
NRP Data C156 Control Display Unit Read Symbolic Display V-5.9 STR NRP Key (2) C194 Multitunction Display Visually Locate Keys and Control Status Map Display (2) C128 Maps/Multitunction C118 Maps/Multitunction C118 Maps/Multitunction Update Cursor C219 Multimode C147 Multimode Controller Mode Trigger C147 Multimode Controller (MC) K-1 Igger Movement C-1.2 Controller C15.8 C15.8 C16.8 C17.9 C17.0	Enter	New NRP Number	C152	Control Display Unit (CDU)	y Locate Keys and Symbolic Display	e and Verify ι Επτιγ		Softkey	4
Map Display (2) C198 Maps/Multitunction Display Visually Locate Key (2-1.2 C-1.2 P-2.2 C-1.2 Display (NMMFD) (NMMFD) (NMMFD) (New NRP) (NMMFD) (NMMFD) (New NRP) (NMMFD) (New NRP) (NMMFD) (New NRP)	Enter	NRP Data	C156		ly Locate Keys and Symbolic Display	e and Verify ¤ Entry		Softkey	۷
Map Display (2) C128 Maps/Multifunction Visually Scan Imagery Interpret Sensory Feedback Display (NMMFD) (C-6.8 Update Cursor (C219 Multimode Controller/ C-1.2 Mode Trigger Verify Symbol Position Pp-4 C-1.2 P-2.2	Press	STR NRP Key (2)	C194				Press Softkey P-2.2	Softkey	ν.
Landmark (Map) Controller/ Mode Trigger Controller/ Mode Trigger Controller/ Controller/ Controller/ Controller/ Controller/ Multimode Controller/ Controller/ Controller/ Multimode Controller/ Controller/ Multimode Controller/ Controller/ Controller/ Controller/ Multimode Controller/	Scan	Map Display (2)	C128	Maps/Multifunction Display (NMMFD)		Interpret Sensory Feedback and Make Judgment C-6.8			
Update Cursor C219 Multimode Feel Switch Movement Verify Symbol Position Manipulate Thumbwheel Correct Multifunction Display : K-6.7/v-5.0 (MC/MFD) Mode Trigger C147 Multimode Controller Feel Trigger Movement (MC) K-1 C-1.2 Pull Trigger Position Pull Trigger P-2.2	Identify	Landmark (Map)	C118	Maps/Multifunction Display (NMMFD)	Discriminate	Interpret Sensory Feedback and Make Judgment (New NRP) C-6.8			ıo
Mode Trigger Correct Position (MC) K-1 C-1.2	Siew	Update Cursor	C219	Multimode Controller/ Multifunction Display (MC/MFD)	2	/mbol Position		Springloaded Center Thumbwheel - 5 Positions	4
	Pol	Mode Trigger	C147	Multimode Controller (MC)	Trigger Movement		Pull Trigger P-2.2		rů.

MH-60K FUNCTION ANALYSIS WORKSHEET

FUNCTION 70 Update Navigation (Mission Change) [Continued]

								Γ
vo.			WORKLOAD	SAD COMPONENTS			DURATION (SECONDS)	
овлест	TASK	SUBS^STEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS	<u>. s</u>
Mode Trigger	C148	Multimode Controller (MC)	C148 Multimode Controller Feel Trigger Movement (MC)	Verify Correct Position C-1.2	Release Trigger P-2.2		rō.	
New NRP Number	C152	C152 Control Display Unit (CDU)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry C-5.3	Type Entry P-2.2	Softkey	4	· · · · · · · · · · · · · · · · · · ·
NRP Data	C156	C156 Control Display Unit (CDU)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry C-5.3	Press Softkey P-2.2	Softkey	7	
STR NRP Key (2)	C194	C194 Multitunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Soffkey P-2.2	Softkey	ιν̈́	
Map Display (2)	C128	C128 Maps/Multifunction Display (NMMFD)	Visually Scan Imagery V-7	Interpret Sensory Feedback and Make Judgment C-6.8			0	
Landmark (Map)	C118	C118 Maps/Multifunction Display (NMMFD)	Visually Discriminate Terrain V-3.7	Interpret Sensory Feedback and Make Judgment (New NRP) C-6.8			ဟ	
Update Cursor	C219	Multimode Feel Switch Movemen Controller/ Visually Align Symbol Multifunction Display K-6.7/V-5.0 (MC/MFD)	2	Verify Symbol Position Correct C-1.2	Manipulate Thumbwheel P-4	Springloaded Center Thumbwheel - 5 Positions	4	***
Mode Trigger	C147	Multimode Controller (MC)	C147 Multimode Controller Feel Trigger Movement (MC)	Verify Correct Position (Second Detent) C-1.2	Pull Trigger P-2.2		ι,	
Mode Trigger	C148	Multimode Controller (MC)	C148 Multimode Controller Feel Trigger Movement (MC)	Verify Correct Position C-1.2	Rehease Trigger P-2.2		ۍ _.	

FUNCTION 70 Update Navigation (Mission Change) [Continued]

TASKS			WORKLOAD	SAD COMPONENTS	S		DURATION (SECONDS
OBJECT TASK ** SUBSYSTEM(S)	FASK # SUBSYSTEM(S)	SUBSYSTEM(S)	 SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS
New NRP Number C152 Control Display Unit (CDU)	C152 Control Display Unit (CDU)	Control Display Unit (CDU)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry C-5.3	Type Entry P-2.2	Softkey	4
NRP Data C 156 Control Display Unit (CDU)	C156 Control Display Unit (CDU)	Control Display Unit (CDU)	 Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry C-5.3	Press Softkey P-2.2	Softkey	2
STR NRP Key (2) C194 Multifunction Display Visually Locate Key (MFD) (MFD)	C194 Multifunction Display (MFD)	Multifunction Display (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ι,
SYST Key (2) C195 Multifunction Display Visually Locate Key (MFD) V-3.7	C195 Multifunction Display (MFD)	Multifunction Display (MFD)		Verity Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιύ
FPLN Key (2) C085 Multifunction Display (MFD)	C085 Multifunction Display (MFD)	Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ιά
LEG ADD Key (2) C119 Multifunction Display (MFD)			Visually Locate Key V-3.7	Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	ιν
LEGS Key (2) C122 Multifunction Display (MFD)	C122 Multifunction Display (MFD)	Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status G-1.2	Press Softkey P-2.2	Softkey	ν.
DISPLAY LEG Key CO59 Control Display Unit (CDU)			Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	κi

FUNCTION 70 Update Navigation (Mission Change) [Continued]

	(SECONDS)	DISCRETE/ CONTINUOUS					
	SEC	DISC	2	.v.	 rv	ω	ιο _.
		SWITCH DESCRIPTION	Softkey	Softkey	Softkey		Softkey
	6	PSYCHOMOTOR	Туре Entry P-2.2	Press Softkey P-2.2	Press Soffkey P-2.2		Press Softkey P-2.2
- 1	AD COMPONENTS	COGNITIVE	Encode and Verify Correct Entry C-5.3	Verify Correct Status C-1.2	Verity Correct Status C-1.2	Interpret Symbolic Readout (Quantity) and Make Judgment (Enough Fuel) C-6.8	Verify Correct Status
	WORKLOAD	SENSORY	Visually Locate Keys and Read Symbolic Display V-5.9	Visually Locate Key V-3.7	Visually Locate Key V-3.7	Visually Inspect Symbolic Indication V-4	Visually Locate Key
		SUBSYSTEM(S)	C120 Control Display Unit (CDU)	C121 Multifunction Display (MFD)	C091 Multifunction Display (MFD)	C090 Fuel/Multifunction Display (EF/MFD)	C107 Multifunction Display (MFD)
	_	TASK *	C120	C121	C091	0600	C107
0 2 0 4	IASKS	OBJECT	Leg Data	LEG MOD Key (2)	FUEL/POWER Key (2)	Fuel Summary	HSD Key (2)
		VERB	Enter	Press	Press	Check	Press

FUNCTION	71 Update Navigation (NRP)	RP)				TOTAL	TOTAL TIME (Approximate)	12.5 Seconds
	TASKS			WORKLOAD	OAD COMPONENTS			DURATION (SECONDS)
VERB	OBJECT	TASK *	SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR	SWITCH DESCRIPTION	DISCRETE/ CONTINUOUS
Press	TA Key (1)	C196	Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	_ي .
Press	UPD Key (1)	C218	C218 Multifunction Display (MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ις.
Press	SLEW Key (1)	C188	Multimode Controller/ Multifunction Display (MC/MFD)	Visually Locate Key V-3.7	Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	rċ
Verify	PRP	C155	Multifunction Display/Navigation (MFD/NA)	Visually Discriminate Symbology V-3.7	Interpret Sensory Feedback and Make Judgment (Delta) C-6.8			رم د
Press	SNSR UPD Key (1)	C189	C189 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ıń
Press	ACC Key (1)	C001	C001 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ĸ.
Press	RTN Key (1)	C183	C183 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	ıń
Press	GMTF Key (1)	C093	C093 Multifunction Display Visually Locate Key (MFD)		Verify Correct Status C-1.2	Press Softkey P-2.2	Softkey	rů.